

AEL-5000 Series

AC & DC Electronic Load

FEATURES

- CC, Linear CC, CR, CV, CP and AC Rectifier Load Mode
- Frequency Range : DC, 40~440Hz
- Turbo Mode for 2 Times the Current and Power of Electronic Load within 1 Second
- Eight Units Connected in Parallel up to 180kW for Single-phase and 540kW for Three-phase. Three-phase Delta or Wye Load Connection Can be Synchronized Control by One Master Unit
- Loading and Unloading Angle Control; 0~359 Degree is Settable
- Positive Half-cycle or Negative Half-cycle Loading
- Supports SCR/TRIAC Current Phase Modulation Waveforms, 90 Degree Trailing Edge and Leading Edge
- Optional Interface : GPIB
 RS232
 USB
 LAN





AEL-5003-350-28 AEL-5004-350-37.5 AEL-5002-425-18.75 AEL-5003-425-28 AEL-5004-425-37.5 AEL-5003-480-18.75 AEL-5004-480-28

AEL-5008-425-75



USB LAN	١
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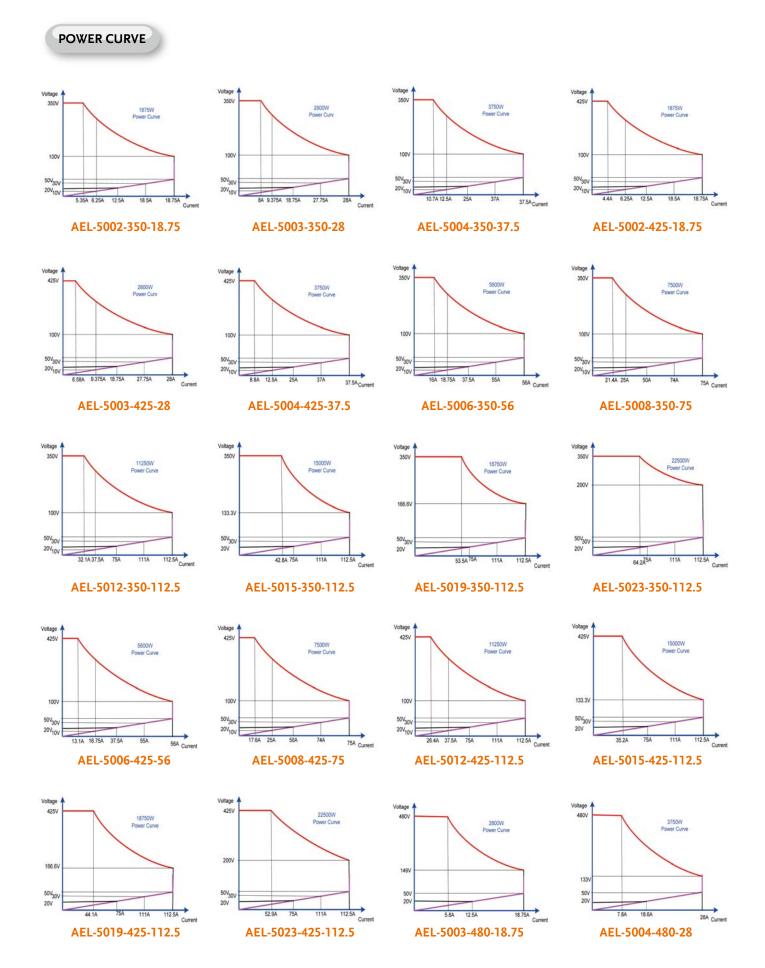
MODEL	Po	Power (W) Current(Ampere)		Current(Ampere)		
MODEL	Turbo OFF	Turbo ON	Turbo OFF	Turbo ON	Voltage(Volt)	
AEL-5002-350-18.75	1875 W	3750W (x2)*	18.75 Arms / 56.25Apeak	37.5Arms/56.25Apeak (x2)*		
AEL-5003-350-28	2800W	5600W (x2)*	28 Arms / 84Apeak	56Arms/84Apeak (x2)*		
AEL-5004-350-37.5	3750 W	7500W (x2)*	37.5 Arms / 112.5Apeak	75.0Arms/112.5Apeak (x2)*	50~350Vrms / 500Vdc	
AEL-5002-425-18.75	1875 W	3750W (x2)*	18.75 Arms / 56.25Apeak	37.5Arms/56.25Apeak (x2)*		
AEL-5003-425-28	2800W	5600W (x2)*	28 Arms / 84Apeak	56Arms/84Apeak (x2)*		
AEL-5004-425-37.5	3750 W	7500W (x2)*	37.5 Arms / 112.5Apeak	75.0Arms/112.5Apeak (x2)*	50~425Vrms / 600Vdc	
AEL-5006-350-56	5600 W	11200W (x2)*	56.0 Arms / 168Apeak	112.0Arms/ 168Apeak (x2)*		
AEL-5008-350-75	7500 W	15000W (x2)*	75.0 Arms / 225Apeak	150.0Arms/225Apeak (x2)*		
AEL-5012-350-112.5	11250W	22500W (x2)*	112.5 Arms / 337.5Apeak	225Arms/337.5Apeak (x2)*		
AEL-5015-350-112.5	15000W	30000W (x2)*	112.5 Arms / 337.5Apeak	225Arms/337.5Apeak (x2)*		
AEL-5019-350-112.5	18750W	37500W (x2)*	112.5 Arms / 337.5Apeak	225Arms/337.5Apeak (x2)*		
AEL-5023-350-112.5	22500W	45000W (x2)*	112.5 Arms / 337.5Apeak	225Arms/337.5Apeak (x2)*	50~350Vrms / 500Vdc	
AEL-5006-425-56	5600 W	11200W (x2)*	56.0 Arms / 168Apeak	112.0Arms/ 168Apeak (x2)*		
AEL-5008-425-75	7500 W	15000W (x2)*	75.0 Arms / 225Apeak	150.0Arms/225Apeak (x2)*		
AEL-5012-425-112.5	11250W	22500W (x2)*	112.5 Arms / 337.5Apeak	225Arms/337.5Apeak (x2)*		
AEL-5015-425-112.5	15000W	30000W (x2)*	112.5 Arms / 337.5Apeak	225Arms/337.5Apeak (x2)*		
AEL-5019-425-112.5	18750W	37500W (x2)*	112.5 Arms / 337.5Apeak	225Arms/337.5Apeak (x2)*		
AEL-5023-425-112.5	22500W	45000W (x2)*	112.5 Arms / 337.5Apeak	225Arms/337.5Apeak (x2)*	50~425Vrms / 600Vdc	
AEL-5003-480-18.75	2800W	5600W (x2)*	18.75 Arms / 56.25Apeak	37.5Arms/56.25Apeak (x2)*		
AEL-5004-480-28	3750 W	7500W (x2)*	28 Arms / 84Apeak	56Arms/84Apeak (x2)*	50~480Vrms / 700Vdc	

 \star Power and current boost rate of Turbo ON

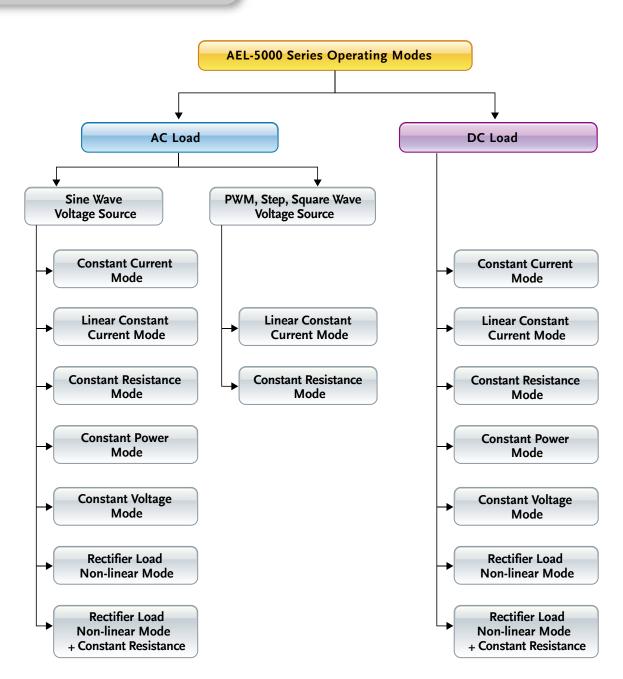
FEATURES

- 4 digit V / A/W Meter · display the Voltage (Vrms, Vpeak, Vmax., Vmin) · Current (Irms, Ipeak, Imax., Imin.) · Watt, Voltampere (VA) · Frequency · Crest Factor · Power Factor · Total Harmonic Distortion of Voltage (VTHD), Voltage Harmonic (VH) · Total Harmonic Distortion of Current (ITHD), Current Harmonic (IH)
- CC, Linear CC, CR, CV, CP and AC Rectifier Load mode
- Crest factor range : 1.414~5.0
- Power factor (PF) range : 0~1 lead or (-1~0) lag
- Built-in function test modes include UPS Efficiency, PV Inverter Efficiency, UPS Back-up time, Battery Discharge time, UPS transfer time, Fuse/Breaker Trip/Non-Trip, Short circuit, OCP, OPP test modes
- Turbo mode is able to increase to 2 times the current and power of electronic load in a short period which is the most suitable for Fuse / Breaker test and short circuit, OCP, OPP test of AC power supply
- Time measurement can be applied to batteries, UPS, fuses and circuit breakers and other tests
- Support on-load boot; at first set Load ON to support on-load boot, inverter or uninterruptible power supply is turned on directly with the set load current, used to verify whether the starter is stable when the Inverter is connected.
- Supports the loading and unloading angle control; the loading and unloading angle control, the full range of 0-359 degrees can be set to verify whether the Inverter output voltage transient response is stable when the actual electrical plugging and unplugging, and whether Overshoot/Undershoot is within the allowable range.
- Support positive half-cycle or negative half-cycle loading; used to verify whether the Inverter output voltage remains stable when the actual appliance has only positive half-cycle or negative half-cycle load current.
- Supports SCR/TRIAC current phase modulation waveforms, 90 degree Trailing edge and Leading Edge.
- Supports the Inrush Current of the inverter at startup and the Surge Current test when the load is suddenly plugged in (Hot Plug-in) during testing.
- Frequency Range : DC, 40~440Hz
- Voltage and current monitoring
- Can be controlled by external voltage for CC, Linear CC, CR, CV, CP operating modes
- \bullet Protection against V, I, W, and $^\circ \! \mathbb{C}$
- Optional interface : GPIB < RS232 < USB < LAN
- The most complete measurement capabilities

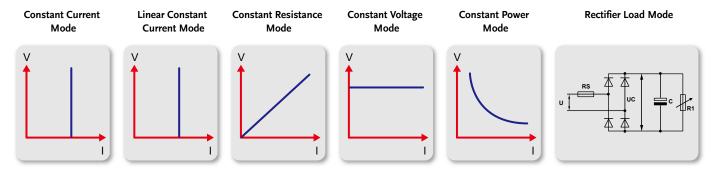
AEL-5000 Series AC & DC electronic load built-in 16-bit A/D and DSP precision measurement circuit, provides accurate measurements, measurement items have Vrms, Arms, Watt, VA, CF, PF, THD, VTHD, ITHD, Ipeak, Amax, Amin, Vmax, and Vmin In addition to these measurement functions, it also provides time measurement [,] products such as UPS, fuses and circuit breakers etc. trip or blow time and transfer time for Off-line UPS



COMPLETE AC AND DC LOAD MODES

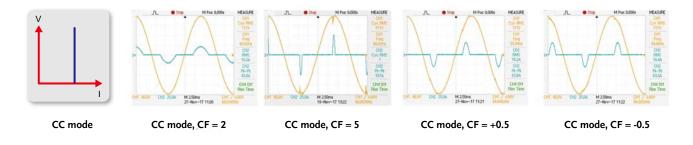


AC LOAD MODE

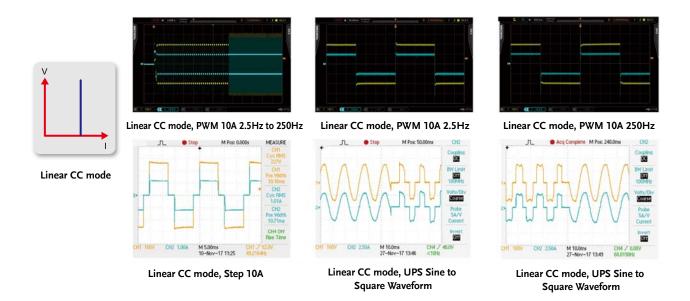




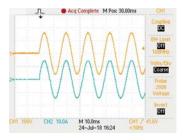
CC Mode : In the constant current mode of AC Load, can be applied to sine wave voltage source, providing CF, PF test of linear load.



Linear Constant Current Mode : Can be applied to sine wave and non-sine wave voltage source, as shown in the PWM inverter driver, step voltage source, and off-line UPS sine wave switch to square wave, square wave switch to sine wave.



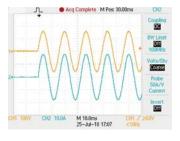
Supported on-load start-up : at first set Load ON to support on-load start-up, inverter or uninterruptible power supply is start-up directly with the set load current, used to verify whether the Inverter is stable when the load is connected during start-up.



CC 10 A on-load boot

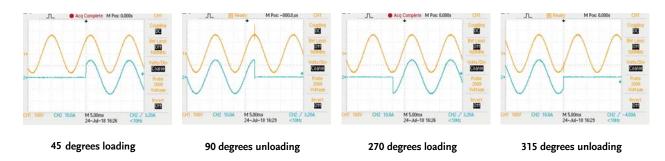


CR 10 A on-load boot

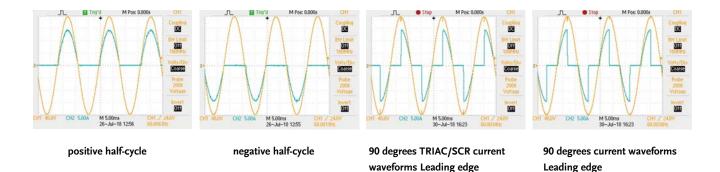


CV 10 A on-load boot

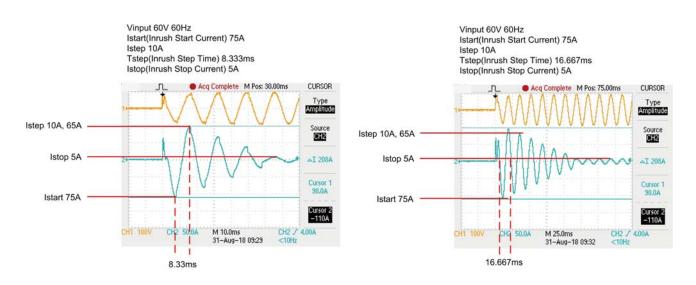
Supports the loading and unloading current angle control ; the loading and unloading current angle range of 0-359 degrees can be programmed to verify whether the Inverter output voltage transient response is stable during the actual electrical appliance is connected or turn ON / OFF randomly it can be used to verify the Overshoot / Undershoot response is within the desire range.



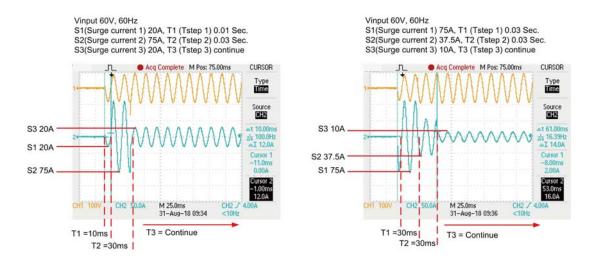
Support positive half-cycle or negative half-cycle loading ; it can be used to verify whether the Inverter output voltage remains stable when the actual appliance has only positive half-cycle or negative half-cycle load current.



Support the Inrush Current of the inverter at startup and Power Plug-in test when the power supply is turned on to verify the Inrush Current and the sudden connection of the appliance when the power is turned on (Surge Current), to verify if whether the Inverter output voltage transient response is stable, as shown in the figure below.



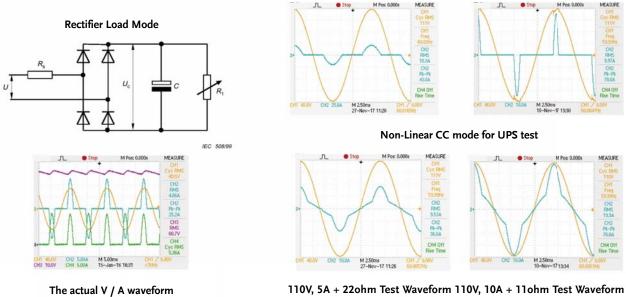
Inrush current test at boot



Inrush Current test at boot

AC RECTIFIED LOAD SIMULATION MEET THE IEC62040-3 AND IEC61683 TEST SPECIFICATIONS

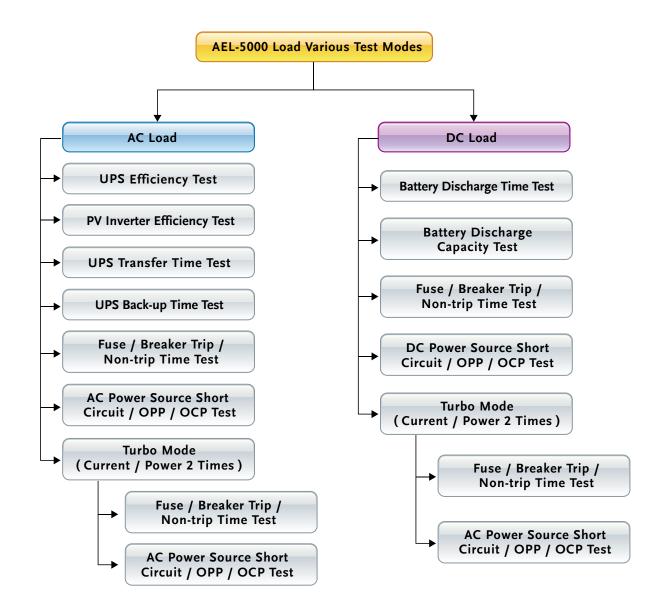
AEL-5000 Series AC & DC electronic load AC rectified load mode is fully compliance with the IEC test specification requirements for the UPS, IEC 62040-3 UPS Efficiency Measurement Non-Linear and IEC 61683 Resistive Plus Non-Linear, respectively, AEL-5000 Series AC rectifier load mode uses CC + CR load mode and maintain current THD at 80%, to simulate the actual PV Inverter connected to the electronic device.



110V, 5A + 22ohm Test Waveform 110V, 10A + 11ohm Test Waveform PV Inverter test Non-Linear CC + Resistive mode (CC+CR)

AEL-5000 LOAD VARIOUS TEST MODES

The AEL-5000 Series AC & DC electronic load features built-in test modes for a variety of products. Including AC Load of UPS, Inverter, Fuse/Breaker, AC Power Source , and DC Load of Battery, Fuse/Breaker, DC Power Source etc.., as shown below.



CURRENT PROTECTION COMPONENT TEST

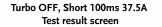
Current protection component includes Fuse, Circuit breakers and a new PTC Resettable fuse etc.., its function is when the circuit current exceeds the design of the rated value, that is, if the load exceeds the design of the current capacity, the circuit will be disconnected, in order to avoid overheating, even fire. Fuse is a one-time use of the protection components, Breaker and PTC can be reused.

The current protection components of the protection current value and the protection reaction time has usually a product of the relationship that is, the greater the current through the current protection component, the shorter the reaction time to protect the circuit. This is similar to energy protection components.

Due to this feature, the AEL-5000 Series AC & DC electronic load, in particular for the verification of current protection components, has developed a Fuse Test function to test and verify such protection element with an electronic load of rated current and power. When Turbo mode is set to ON, the test current can be up to double the maximum current within 1 second of test period. Take AEL-5004-350-37.5 as an example, the maximum test current can be doubled to 75A. That is, when the Turbo mode of the AEL-5000 Series is ON, the test current value can reach to 2 units AEL-5000 Series (normal mode) within 1

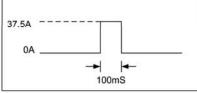




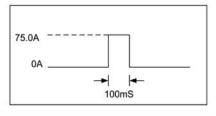




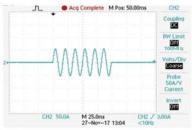
Turbo ON, Short 100ms 75.0A Test result screen



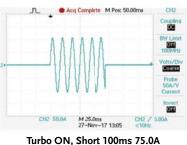




Turbo ON, Short 100ms 75.0A Setting



Turbo OFF, Short 100ms 37.5A The actual test waveform



The actual test waveform



Turbo OFF, OCP Istep 3.75 A Istop 37.5A Test result screen

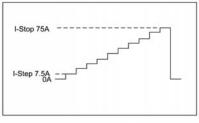


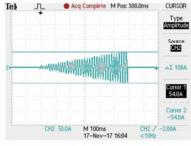
Turbo ON, OCP Istep 7.5 A Istop 75A

Test result screen

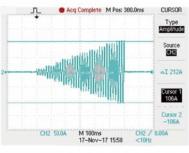


Turbo OFF, OCP Istep 3.75 A Istop 37.5A Setting





Turbo OFF, OCP Istep 3.75 A Istop 37.5A The actual test waveform



Turbo ON, OCP Istep 7.5 A Istop 75.0A Setting

Turbo ON, OCP Istep 7.5 A Istop 75.0A The actual test waveform

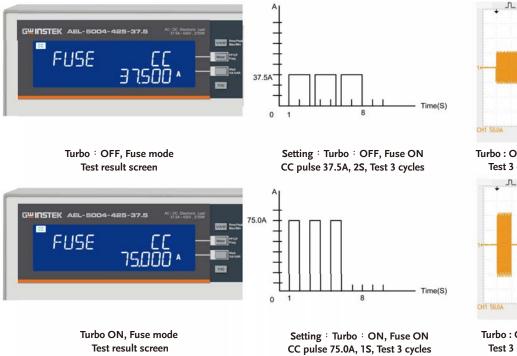
Basically, Fuse test has Trip (Blown) and Non-Trip (no Blown) 2 types.

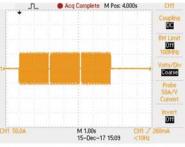
Fuse Test setting parameters include test current (Istart), test time (Time), test REPEAT Time etc..

In the Trip fuse test, it is used to test when there is too large abnormal current the Fuse or Bleaker must be able to provide the protection of the circuit break, that means current protection components need the fuse action, therefore the test current needs to be larger than the fuse current rating.

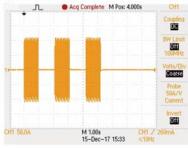
When the AEL-5000 Series AC & DC electronic load detects a voltage lower than 1.0V, the LCD displays the number of Repeat Cycle and Current Protection Fusing Time XXXX.X sec.

In the Non-Trip (no Blown) test, the current protection component is required to achieve non-blow action, so the test current needs to be lower than the fuse current rating that is used to verify the fuse must not blow during normal current range. When the AEL-5000 Series AC & DC electronic load is not blown after the test time (Pulse Time) and the repeated Repeat number, the LCD displays the information of the Repeat number.





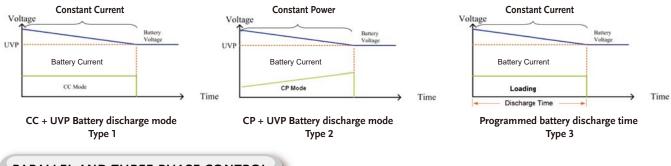
Turbo : OFF, Fuse ON, CC pulse 37.5A, 2S, Test 3 cycles the actual test waveform



Turbo : ON, Fuse ON, CC pulse 75A, 1S, Test 3 cycles the actual test waveform

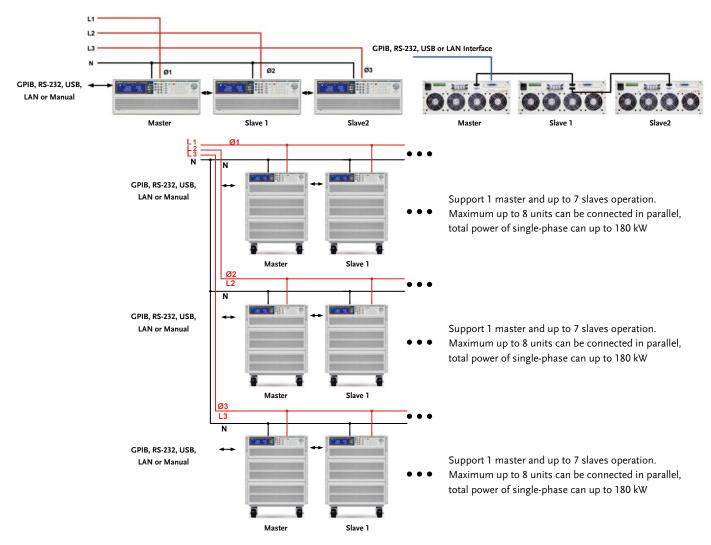
BATTERY TEST FUNCTION

AEL-5000 Series AC & DC electronic load has built-in new TYPE1 ~ TYPE3 battery discharge test, you can select the desired battery test mode, the test results can be directly displayed on the LCD display for battery AH capacity, the voltage value after discharge and the cumulative discharge time.



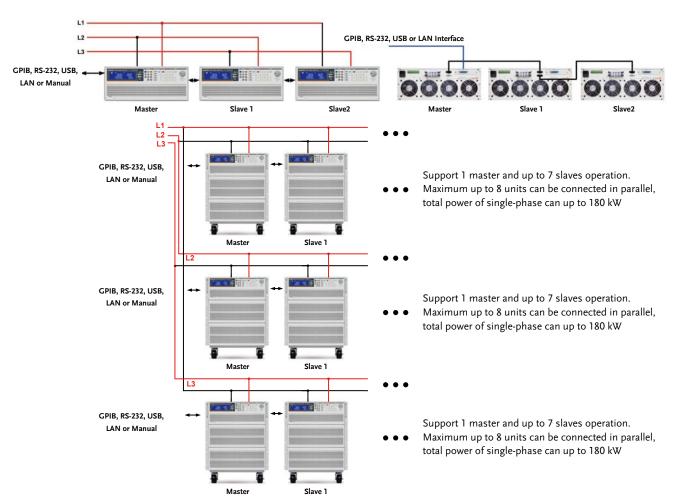
PARALLEL AND THREE-PHASE CONTROL

The AEL-5000 Series AC & DC load provides multiple units in parallel, three-phase applications that allows users to test applications with greater power or three-phase AC power, this is more flexibility to use the AEL-5000 Series AC & DC Electronic Load for control. In parallel / three-phase operation, the user operates the unit as the operation of a single machine, as long as the Master can be operated, Slave1 and Slave2 will automatically sink the load and measurement. Parallel and three-phase connection as shown below.

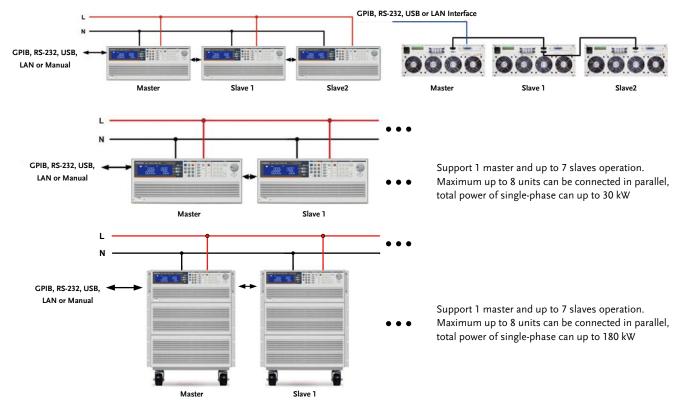


Maximum power of single-phase can up to 180KW, 3-phase total power up to 540KW 3-phase riangle or Y Connection

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Maximum power of single-phase can up to 180KW, 3-phase total power up to 540KW 3-phase \triangle or Y Connection parallel connection

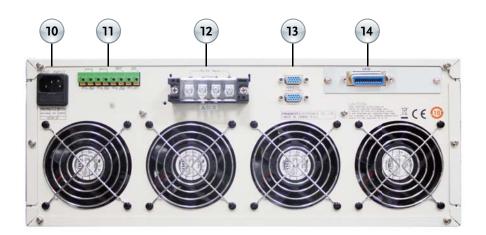


Parallel connection

PANEL INSTRUCTIONS



		LCD Multi-function display Four meters can display the voltage value at the same time the Voltage(Vrms, Vpeak, Vmax., Vmin) < Current (Irms, Ipeak, Imax., Imin.) < Watt, Voltampere(VA) < Frequency < Crest Factor < Power Factor < Total Harmonic Distortion of Voltag(VTHD) < Voltage Harmonic(VH) < Total Harmonic Distortion of Current(ITHD) < Current Harmonic(IH)	3	Operate function keys Mode <pre>> Preset ON / OFF < Load ON / OFF <sense <config="" a="" b="" function="" keys<="" level="" limit="" local="" off="" on="" operate="" pre="" recall="" seq="" store="" system=""></sense></pre>
	1 Fre Dis Tot		4	Waveform library keys Can be quickly set CF √2 / 2 / 2.5 / 3 / 3.5 ' +/- PF0.6 / 0.7 / 0.8 / 0.9 / 1.0 ' FREQ Auto / 50Hz/ 60Hz / 400Hz °
			5	Test function keys Can select Short / OPP / OCP /Non-L / NL-CR /Fuse / Batt (Battery Discharge) / Trans (UPS transfer time) test functions.
		Meter switch button V / A / W keys can set the display Rms / Peak / Max / Min,Meter	6	Numeric keypad
			7	Knob setting
	-	key can select PF / CF / FREQ , switchable display WATT / VA /	8	Switch
		VAR keys [,] THD key choose to display THD	9	Cursor and button setting



10	AC power input connector		Master-slave control connector
11	Vmonitor < Imonitor < Analog input < SYNC input Input terminal	13	Master : Connect the top or bottom to the next unit Slave : The top connects to the previous unit and the bottom connects to the next unit
12	Vload, Vsense Input terminal	14	Communication interface (GPIB \ RS-232 \ USB \ LAN)

			SP	ECIFICATIONS			
MODEL Power (W)		AEL-5002-350-18.75			AEL-5002-425-18.75	AEL-5003-425-28	AEL-5004-425-37.5
Current(Ampere)		18.75 Arms / 56.25Apeak	28 Arms / 84Apeak	37.5 Arms / 112.5Apeak	18.75 Arms / 56.25Apeak	28 Arms / 84Apeak	37.5 Arms / 112.5Apeak
Voltage(Volt) FREQUENCY Range		DC,40~440	50~350Vrms / 500Vdc Hz(CC,CP Mode) , DC~440Hz(LIN,CF	;CV Mode)	DC,40~44	50~425Vrms / 600Vdc DHz(CC,CP Mode) , DC~440Hz(LIN,CR	CV Mode)
PROTECTIONS Over Power Protection		≒ 1968.75Wrms or Programmable	≒2940Wrms or Programmable	≒ 3937.5Wrms or Programmable	≒ 1968.75Wrms or Programmable	≒2940Wrms or Programmable	≒ 3937.5Wrms or Programmable
Over Current Protection		≒ 19.687 Arms or Programmable	≒ 29.4 Arms or Programmable	≒ 39.375 Arms, or Programmable	≒ 19.687 Arms or Programmable	≒ 29.4 Arms or Programmable	≒ 39.375 Arms, or Programmable
Over Vlotage Protection Over Temp. Protection			≒ 367.5 Vrms / 525Vdc Yes			≒ 446.25 Vrms/630Vdc Yes	
OPERATION MODE Constant Current Mode for Sine-W	/ave						
Range		0~18.75A	0~28A	0~37.5A	0~18.75A	0~28A	0~37.5A
Resolution Accuracy		0.3125mA/16bits ± (0.15	0.5mA/16bits % of setting + 0.2% of range)@!	0.625mA/16bits 50/60Hz	0.3125mA/16bits ± (0.1	0.5mA/16bits % of setting + 0.2% of range) @ 5	0.625mA/16bits 0/60Hz
Linear Constant Current Mode for Range	Sine-Wave, Square	-Wave or Quasi-Square Wave, PWM Wave 0~18.75A	0~28A	0~37.5A	0~18.75A	0~28A	0~37.5A
Resolution		0.3125mA/16bits	0.5mA/16bits	0.625mA/16bits	0.3125mA/16bits	0.5mA/16bits	0.625mA/16bits
Accuracy Constant Resistance Mode		± (0.15	% of setting + 0.2% of range) @ !	50/60Hz	± (0.1	% of setting + 0.2% of range) @ 5	0/60Hz
Range Resolution*1		3.2 ohm ~ 64K ohm 0.0052083mS/16bits	2.0 ohm ~ 40K ohm 0.0083333mS/16bits	1.6 ohm ~ 32K ohm 0.010416mS/16bits	3.2 ohm ~ 64K ohm 0.0052083mS/16bits	2.0 ohm ~ 40K ohm 0.0083333mS/16bits	1.6 ohm ~ 32K ohm 0.010416mS/16bits
Accuracy			0.2% of (setting + range) @ 50/60			0.2% of (setting + range) @ 50/60H	
Constant Voltage Mode Range			50~350Vrms / 500Vdc			50~425Vrms / 600Vdc	
Resolution Accuracy			0.01V ±(0.1% of setting + 0.1% of range)			0.1V ±(0.1% of setting + 0.1% of range)	
Constant Power Mode				r			a.
Range Resolution		1875W 0.1W	2800W 0.1W	3750W 0.1W	1875W 0.1W	2800W 0.1W	3750W 0.1W
Accuracy CREST FACTOR (CC & CP MODE			\pm (0.1% of setting + 0.1% of range)			±(0.1% of setting + 0.1% of range)	1
Range	ONLI)		√2~5			√25	
Resolution Accuracy			0.1 (0.5% / Irms) + 1% F.S.			0.1 (0.5% / Irms) + 1%F.S.	
POWER FACTOR (CC & CP MOD	E ONLY)	•					
Range Resolution			0~1 Lag or Lead 0.01			0~1 Lag or Lead 0.01	
Accuracy TEST MODE			1%F.S.			1%F.S.	
UPS Efficient Measurement			Non-Linear Mode			Non-Linear Mode	
Operating Frequency Current Range		0~18.75A	Auto ; 40~440Hz 0~28A	037.5A	0-18.75A	Auto ; 40~440Hz 0~28A	0~37.5A
PF Range Measuring Efficiency For PV Syste	ms.		0-1			0-1	
Power Conditioners for THD 80%			Resistive + Non-Linear Mode			Resistive + Non-Linear Mode	
Operating Frequency Current Range		018.75A	Auto ; 40-440Hz 0-28A	037.5A	0~18.75A	Auto ; 40440Hz 028A	0~37.5A
Resistive Range UPS Back-Up Function(CC,LIN,CF	2 CP)	3.2 ohm ~ 64K ohm	2.0 ohm ~ 40K ohm	1.6 ohm ~ 32K ohm	3.2 ohm ~ 64K ohm	2.0 ohm ~ 40K ohm	1.6 ohm ~ 32K ohm
UVP (VTH)	(c.)		50-350Vrms / 500Vdc			50425Vrms / 600Vdc	
UPS Back-Up Time Battery Discharge Function(CC,LII	N,CR,CP)		1-99999 Sec. (>27H)			1-99999 Sec. (>27H)	
UVP (VTH) Battery Discharge Time			50~350Vrms / 500Vdc 1-99999 Sec. (>27H)			50~425Vrms / 600Vdc 1~99999 Sec. (>27H)	
UPS Transfer Time				T.			
Current Range UVP (VTH)		0~18.75A	0~28A 2.5V	0~37.5A	0~18.75A	0~28A 2.5V	0~37.5A
Time Range Fuse Test Mode			0.15ms-999.99ms			0.15ms-999.99ms	
Max. Current	Turbo OFF	18.75Arms	28.0Arms	37.5Arms	18.75Arms	28.0Arms	37.5Arms
	Turbo ON Turbo OFF	37.5Arms (x2) *3	56.0Arms (x2) *3 0.1-9999.9Sec.	75.0Arms (x2) *3	37.5Arms (x2) *3	56.0Arms (x2) *3 0.1–9999.9Sec.	75.0Arms (x2) 33
Trip & Non-Trip Time	Turbo ON		0.1-1.0Sec.			0.1-1.0Sec.	
Meas. Accuracy Repeat Cycle			±0.003 Sec. 0~255			±0.003 Sec. 0~255	
Short/OPP/OCP Test Function	Turbo OFF		0.1–10Sec. or Cont.			0.1-10Sec. or Cont.	
Short Time	Turbo ON		0.1-1Sec.			0.1–1Sec.	
OPP/OCP Step Time	Turbo OFF Turbo ON		100ms 100ms, up to 10 Steps			100ms 100ms, up to 10 Steps	
OCP Istop	Turbo OFF Turbo ON	18.75Arms 37.5Arms	28.0Arms 56.0Arms	37.5Arms 75.0Arms	18.75Arms 37.5Arms	28.0Arms 56.0Arms	37.5Arms 75.0Arms
OPP Pstop	Turbo OFF	1875W	2800W	3750W	1875W	2800W	3750W
Programmable Inrush Current Sirr	Turbo ON nulation: Istart - Ist	3750W	5600W	7500W	3750W	5600W	7500W
Istart, Inrush Start Current Inrush Step Time		0~37.5A	0~56A 0.1ms-100ms	0~75A	0~37.5A	0~56A 0.1ms-100ms	0~75A
Istop, Inrush Stop Current		0~18.75A	0~28A	0~37.5A	0~18.75A	0~28A	0~37.5A
Programmable Surge Current Sim S1 and S2 Current	ulation: S1/T1 - S2	0~37.5A	0~56A	0~75A	0~37.5A	0~56A	0~75A
T1 and T2 Time S3 Current		0~18.75A	0.01-0.5Sec. 0~28A	0~37.5A	0~18.75A	0.01-0.5Sec. 0-28A	0~37.5A
T3 Time		0~10./JA	0.01–9.99Sec. or Cont.	0-37.3M	0-10./JA	0.01-9.99Sec. or Cont.	0-37.JA
MEASUREMENTS VOLTAGE READBACK V METER							
Range Resolution			500V 0.01V			600V 0.01V	
Accuracy			±0.05% of (reading + range)			±0.05% of (reading + range)	
Parameter CURRENT READBACK A METER	_		Vrms,V Max/Min,+/-Vpk			Vrms,V Max/Min,+/-Vpk	
Range		9.375Arms/18.75Arms	14Arms/28Arms	18.75Arms/37.5Arms	9.375Arms/18.75Arms	14Arms/28Arms	18.75Arms/37.5Arms
Resolution Accuracy		0.2mA/0.4mA ±0.	0.3mA/0.6mA .05% of (reading + range) @ 50/60	0.4mA/0.8mA Hz	0.2mA/0.4mA ±0	0.3mA/0.6mA 0.05% of (reading + range) @ 50/60	0.4mA/0.8mA Hz
Parameter WATT READBACK W METER			Irms,I Max/Min,+/-Ipk			Irms,I Max/Min,+/-Ipk	
Range		1875W	2800W	3750W	1875W	2800W	3750W
Resolution Accuracy		0.03125W	0.05W ±0.1% of (reading + range)	0.0625W	0.03125W	0.05W ±0.1% of (reading + range)	0.0625W
VA METER POWER FACTOR METER		Vn	msxArms Correspond To Vrms and Ar	ms	Vi	msxArms Correspond To Vrms and Arr	ns
Range			+/- 0.000~1.000			+/- 0.000~1.000	
Accuracy Frequency METER(V)		ļ	±(0.002±(0.001/PF)*F)			±(0.002±(0.001/PF)*F)	
Range			DC,40-440Hz 0.1%			DC,40440Hz 0.1%	
Accuracy Other Parameter METER		I				v.1%	
OTHERS	VA	, VAR, CF_I, Ipeak, Imax., Imin. Vmax., Vm	in., IHD, VHD, ITHD, VTHD				
Start up Loading		Yes , Po	ower on loading during Inverter / UPS	start up	Yes, P	ower on loading during Inverter / UPS s	tart up
Load ON / OFF Angle Half Cycle and SCR/TRIAC Loadin			programmed for the angle of load ON 0° Trailing edge or Leading edge currer			programmed for the angle of load ON 0° Trailing edge or Leading edge curren	
Master/Slave (3 Phase or Parallel External Programming Input (OPT			Yes, 1 master and upto 7 slave units F.S / 10Vdc, Resulotion 0.1V	· · · ·		Yes, 1 master and upto 7 slave units F.S / 10Vdc, Resulotion 0.1V	
External SYNC Input	**1		TTL			TTL	
Vmonitor (Isolated) Imonitor (Isolated)		±56.25Apk / ±10Vpk	±500V / ±10V ±84Apk / ±10Vpk	±112.5Apk / ±10Vpk	±56.25Apk / ±10Vpk	±600V / ±10V ±84Apk / ±10Vpk	±112.5Apk / ±10Vpk
Interface (OPTION)			GPIB; RS-232; LAN; USB			GPIB ; RS-232 ; LAN ; USB	
MAX. Power Consumption Operation Temperature *2			150VA			150VA 0 ~ 40 °C	
Current of Input Impedance(mA)@ @ 400Hz	050/60Hz ;	-V*0.3 ; -V*2.2	-V*0.45 ; -V*3.3	V*0.6 ;V*4.4	V*0.3 ;V*2.2	-V*0.45 ; -V*3.3	V≈0.6 ;V≈4.4
Dimension(H x W x D)		177 x 440 x 558 mm	177 x 440 x 558mm	177 x 440 x 558 mm	177 x 440 x 558 mm	177 x 440 x 558mm	177 x 440 x 558 mm
Weight		21.5Kg	27.5Kg	33.5Kg	21.5Kg	27.5Kg	33.5Kg

*1 ms (millisiemens) is the unit of conductance(G), one siemens equal to $1/\Omega$ *2 Operating temperature range is 0-40°C, all specification apply for 25°C±5°C, Except as noted *3 Turbo mode for up to 2X Current rating & Power rating support Fuse, Short/OCP/OPP test function

		SDEC				
MODEL			IFICATIONS		A EL 6010 260 112 E	A EL E022 2E0 112 E
Power (W)	AEL-5006-350-56	AEL-5008-350-75 7500 W	AEL-5012-350-112.5	AEL-5015-350-112.5	AEL-5019-350-112.5 18750W	AEL-5023-350-112.5 22500W
Current(Ampere)	56 Arms / 168Apeak	75 Arms / 225Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak ms / 500Vdc	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak
Voltage(Volt) FREQUENCY Range				, DC~440Hz(LIN,CR,CV Mode)		
PROTECTIONS Over Power Protection	≒ 5880Wrms or Programmable	≒ 7875Wrms or Programmable	≒11812.5Wrms or Programmable	≒11812.5Wrms or Programmable	≒19687.5Wrms or Programmable	≒23625Wrms or Programmable
Over Current Protection	= 58.8 Arms, or Programmable	≒ 78.75 Arms, or Programmable	≒ 118.125 Arms or Programmable	≒ 118.125 Arms or Programmable	= 118.125 Arms or Programmable	= 118.125 Arms or Programmable
Over Vlotage Protection Over Temp. Protection				′rms/525Vdc res		
OPERATION MODE Constant Current Mode for Sine-Wave						
Range	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
Resolution Accuracy	1mA/16bits	1.25mA/16bits	1.875mA/16bits ± (0.1% of setting + 0	1.875mA/16bits .2% of range) @ 50/60Hz	1.875mA/16bits	1.875mA/16bits
Linear Constant Current Mode for Sine-Wave, Square Range	-Wave or Quasi-Square Wave, PWM Wave 0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
Resolution	1mA/16bits	1.25mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits	1.875mA/16bits
Accuracy Constant Resistance Mode			± (0.1% of setting + 0	1.2% of range) @ 50/60Hz		
Range Resolution*1	1 ohm ~ 20K ohm 0.016666mS/16bits	0.8 ohm ~ 16K ohm 0.020832mS/16bits	0.533 ohm ~ 10.666K ohm 0.031248mS/16bits	0.533 ohm ~ 10.666K ohm 0.031248mS/16bits	0.533 ohm ~ 10.666K ohm 0.031248mS/16bits	0.533 ohm ~ 10.666K ohm 0.031248mS/16bits
Accuracy	and readening reaks	0.0200321103/100103		+ range) @ 50/60Hz	0.051210105/10013	or of the formal resolution
Constant Voltage Mode Range			50~350Vn	ms / 500Vdc		
Resolution Accuracy				1.1V + range) @ 50/60Hz		
Constant Power Mode						
Range Resolution	5600W 0.1W	7500W 0.1W	11250W 1W	15000 W 1W	18750W 1W	22500W 1W
Accuracy CREST FACTOR (CC & CP MODE ONLY)			±0.2% of (setting	+ range) @ 50/60Hz		
Range				25		
Resolution Accuracy				0.1 ns) + 1%F.S.		
POWER FACTOR (CC & CP MODE ONLY)	•			g or Lead		
Range Resolution			0	0.01		
Accuracy TEST MODE			19	6F.S.		
UPS Efficient Measurement				near Mode 10~440Hz		
Operating Frequency Current Range	056A	075A	0112.5A	0~112.5A	0~112.5A	0~112.5A
PF Range Measuring Efficiency For PV Systems,				ні 		
Power Conditioners for THD 80%				on-Linear Mode		
Operating Frequency Current Range	0~56A	075A	Auto ; 4 0–112.5A	0-440Hz 0-112.5A	0112.5A	0~112.5A
Resistive Range UPS Back-Up Function(CC,LIN,CR,CP)	1 ohm ~ 20K ohm	0.8 ohm ~ 16K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm
UVP (VTH)				ms / 500Vdc		
UPS Back-Up Time Battery Discharge Function(CC,LIN,CR,CP)				Sec. (>27H)		
UVP (VTH) Battery Discharge Time				ms / 500Vdc Sec. (>27H)		
UPS Transfer Time		-				
Current Range UVP (VTH)	0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
Time range				999.99ms		
Fuse Test Mode Turbo OFF Max. Current		75Arms	112.5Arms	112.5Arms	112.5Arms	112.5Arms
Turbo ON	150Arms (x2) *3	150Arms (x2) *3	225Arms (x2) *3	225Arms (x2) *3	225Arms (x2) *3	225Arms (x2) *3
Turbo OFF			0.1-99	99.9Sec.		
Trip & Non-Trip Time Turbo ON		+ * * *	0.1-1	.0Sec.		
Trip & Non-Trip Time Meas. Accuracy Repeat Cycle		+ , , , ,	0.1-1 ±0.0			
Inp & Non-Inp Time Turbo ON Meas. Accuracy Repeat Cycle Short/OPP/OCP Test Function			0.1 ±0.0 0-	.0Sec. 03 Sec. -255		
Inp & Non-Inp Imme Turbe ON Meas. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbe ON Turbe ON Turbe ON	2		0.1-1 ±0.0 0. 0.1-105e 0.1-	.0Sec. 03 Sec. -255 c. or Cont. 1Sec.		
Inp & Non-Inp Ime Turbo ON Meas. Accuracy Turbo ON Repeat Cycle Short/OPP/OCP Test Function Short/OPP/OCP Test Function Turbo OFI OPP/OCP Step Time Turbo OFI Turbo OFI Turbo OFI			0.1 ±0.0 0 0.1105e 0.1- 0.1- 0.1- 0.1- 0.1- 0.1- 0.0- 0.0-	.0Sec. 235 255 1Sec. 1Sec. 0ms to 10 Steps		
Inp & Non-Inp Imme Turbo ON Meas. Accuracy Repeat Cycle Short/OPP/OCP Test Function Short Time Turbo OFI ORP//CP Stan Time Turbo OFI		75Arms 150Arms	0.1-1 ±0.0 0- 0.1-105 0.1- 0.1- 0.1- 0.1- 0.1- 0.1- 0.1- 0.1-	.0Sec. 03 Sec. -255 c. or Cont. 1Sec. 0ms	112.5Arms 225Arms	112.5Arms 225Arms
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short Time Turbo OF OPP/OCP Step Time Turbo ON OPP/OCP Step Time Turbo OF OCP Istop Turbo OF OCP Istop Turbo OT Turbo OT Turbo OT	: : : : : : : : : : : : : : : : : : :	75Arms 150Arms 7500W	0.1- ±0.0 0 0.1-10Se 0.1- 100ms, uj 112.5Arms 1125W	05ec. 255 c. or Cont. 15ec. 00ms 112.5Arms 225Arms 15000W	225Arms 18750W	225Arms 22500W
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo ON OPP/OCP Step Time Turbo ON OPP/OCP Step Time Turbo ON OCP Istop Turbo ON OCP Istop Turbo ON OCP Step Time Turbo ON OCP Istop Turbo ON OPP Potop Turbo ON Programmable Innush Current Simulation: Istat - Ista	: : : : : : : : : : : : : :	75Arms 150Arms 7500W 15000W	0.1- =0.0 0.1-10Se 0.1-10Se 0.1- 100ms.uj 112.5Arms 1125W 225Arms 1125W	05ec. 255 255 C. or Cont. 15ec. 00ms to 10 Steps 112.5Arms 225Arms 15000W 30000W	225Arms 18750W 37500W	225Arms 22500W 45000W
Inp & Non-Inp Ime Turbo ON Repeat Cycle Short/OPP/OCP Test Function Short/OPP/OCP Test Function Turbo OFI OPP/OCP Step Time Turbo OFI OPP JOCP Step Time Turbo ON OCP Istop Turbo OFI OCP Pstop Turbo OFI Programmable Innush Current Simulation: Istart - Ist Istart - Ist	: : : : : : : : : : : : : :	75Arms 150Arms 7500W	0,1-1 =0.0 0,1-105e 0,1-105e 0,1-105e 0,1-105e 112,5Arms 225Arms 112,5Arms 225Arms 22500W 22500W 22500W	05ec. 235 c. or Cont. 15ec. 0ms to 10 Steps 12.5Arms 225Arms 15000W 30000W	225Arms 18750W	225Arms 22500W
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Short/OPP/OCP Short/OPP/OCP Step Time Turbo OFI OPP/OCP Step Time Turbo ON OCP Istop Turbo ON OCP Istop Turbo ON OPP Postop Turbo ON Programmable Innush Current Simulation: Istart - Ists Istop, Innush Start Current Innush Stap Time Istop, Innush Stap Current Horden Stap Current	: : : : : : : : : : : : : :	75Arms 150Arms 7500W 15000W	0,1-1 =0.0 0,1-105e 0,1-105e 0,1-105e 0,1-105e 112,5Arms 225Arms 112,5Arms 225Arms 22500W 22500W 22500W	05ec. 255 255 C. or Cont. 15ec. 00ms to 10 Steps 112.5Arms 225Arms 15000W 30000W	225Arms 18750W 37500W	225Arms 22500W 45000W
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OP/OCP Test Function Turbo OFI Short Time Turbo OFI OPP/OCP Step Time Turbo OFI OPP/OCP Step Time Turbo OFI OPP Joce Step Time Turbo OFI OCP Istop Turbo OTI OCP Istop Turbo OTI Programmable Insub Current Simulation: Istart - Ist Istop, Insub Stop Current Insub Stop Current Frougatornable Surge Current Programmable Surge Current Sinualition: S1/TI - S2 S1 and S2 current Sinue Stop Current	: : : : : : : : : : : : : :	75Arms 150Arms 7500W 15000W 0-150A	0.1- 20.0 0. 0.1-105c 0.1- 100ms, up 112.5Arms 11250W 22500W 22500W 0225A 0.1ms 0.1ms 0.25A	05ec. 235 235 c. or Cont. 15ec. 0ms 112.5Arms 1225Arms 15000W 30000W 0-225A 0-112.5A 0-225A	225Arms 18750W 37500W 0-225A	225Arms 22500W 45000W 0-225A
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short Time Turbo OF OPP/OCP Step Time Turbo OF OUP Step Time Turbo OF OCP Istop Turbo OF OCP Istop Turbo OF Turbo ON OPP Petop Turbo ON Programmable Innush Current Simulation: Istart - Ist Istart, Innush Start Current Turbo ON Programmable Surge Current Simulation: S1/TI - S2 S1 and S2 Current Ti and T2 Time Time	: : : : : : : : : : : : : :	75Arms 150Arms 7500W 15000W 0~150A 0~75A 0~150A	0.1-1 	05ec. 05 Sec. 255 255 260 275 255 255 255 255 255 225Arms 15000W 225Arms 15000W 0-225A 0-225A 0-225A 0-255C.	225Ams 18750W 37500W 0-225A 0-112.5A 0-225A	225Ams 22500W 45000W 0-225A 0-112.5A 0-225A
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short Time Turbo OF OPP/OCP Step Time Turbo OF OpP/OCP Step Time Turbo OF Turbo OF Turbo OF OCP Isop Turbo OF Turbo ON OPP Petop Programmable Innush Current Turbo ON Innush Start Current Innusho Start Current Innush Stop Turent Turbo ON Torgarannable Surge Current Sinda S2 Current Ti and T2 Time S1 and S2 Current S1 aremet Time	: : : : : : : : : : : : : :	75Arms 150Arms 7500W 15000W 0-150A	0.1- 20.0 0. 0.1-105e 0.1- 100ms, uf 112.5Arms 11250W 22500W 0.225A 0.1ms 0112.5A 0.01- 0112.5A	05ec. 255 255 c. or Cont. 15ec. 0ms 112.5Arms 1225Arms 15000W 30000W 0-225A 0-112.5A 0-225A	225Arms 18750W 37500W 0-225A	225Arms 22500W 45000W 0-225A
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short/OPP/OCP Step Time Turbo OF OPP/OCP Step Time Turbo OF OPP/OCP Step Time Turbo OF OCP Istop Turbo OF OCP Istop Turbo ON OPP Patop Turbo ON Programmable Innush Current Simulation: Istart-Ist Istart, Innush Start Current Innush Stop Gurent Programmable Surge Current Simulation: S1/TI - S2 S1 and S2 Current Ti and T2 Time S3 Current Ti Time T3 Time VOLTACE READBACK A METER	: 56Arms : 56Arms : 112Arms : 5600W 1120W op / Tsep 0-112A 0-56A (T2 - SA/T3 0-112A	75Arms 150Arms 7500W 15000W 0~150A 0~75A 0~150A	0.1-1 	05ec. 05 Sec. 255 255 255 15 Cont. 15 Cont. 10 10 Steps 10 10 Steps 12 5 Arms 12 5 Arms 13 0000W 0.225A 0.0112.5A 0.225A 0.225A 0.05Sec. 0.0112.5A Sec. or Cont.	225Ams 18750W 37500W 0-225A 0-112.5A 0-225A	225Ams 22500W 45000W 0-225A 0-112.5A 0-225A
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short Time Turbo OF OPP/OCP Step Time Turbo OF OPP/OCP Step Time Turbo OF OCP Istop Turbo OF OCP Istop Turbo OF Innah Step Time Turbo ON Programmable Innush Current Simulation: Istart-Ist Istart, Innush Start Current Innush Step Time Turbo ON Programmable Surge Current Simulation: S1/TI - S2 S1 and S2 Current Ti and T2 Time S3 Current T3 Time Ta Time VOLTACE READBACK A METER Reage Resolution	: 56Arms : 56Arms : 112Arms : 5600W 1120W op / Tsep 0-112A 0-56A (T2 - SA/T3 0-112A	75Arms 150Arms 7500W 15000W 0~150A 0~75A 0~150A	0,1-1 +,00 0,1-105- 0,1-105- 0,1-105- 100ms, uf 112,5Arms 112,5Arms 112,50W 0,225AW 0,1ms 0,1ms 0,1ms 0,1ms 0,1-12,5A 0,01-9,99 0,01-9,99 5 0,01-9,99 0,01-9,99 0,01-9,99 0,01-9,99 0,01-9,99 0,01-9,99 0,01-9,99 0,01-9,99 0,01-0,00 0,00 0	05ec. 05 Sec. 255 255 15 Cont. 15 Cont. 10 10 Steps 112.5 Arms 225 Arms 15 Cont. 0 - 225 A 0 - 112.5 A 0 A 0 - 11	225Ams 18750W 37500W 0-225A 0-112.5A 0-225A	225Ams 22500W 45000W 0-225A 0-112.5A 0-225A
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short Time Turbo OF OPP/OCP Step Time Turbo OF OCP Istop Turbo OF OCP Istop Turbo OF OPP Potop Turbo OF Programmable Intush Current Simulation: Istart - Ist Intush Staf Current Intush Staf Surge Time Istart, Insush Staf Current Stourent Programmable Surge Current Simulation: S1/T1 - 52 S1 and 32 Current T1 and T2 Time S1 Current MEASUREMENTS VOLTACE READBACK A METER Range Resolution Accuracy	: 56Arms : 56Arms : 112Arms : 5600W 1120W op / Tsep 0-112A 0-56A (T2 - SA/T3 0-112A	75Arms 150Arms 7500W 15000W 0~150A 0~75A 0~150A	0 -1 = 00 = 00 0.1-10Se 0.1-10Se 0.1-10Se 0.1-10Se 1125Arms 1125Arms 1125W 225Arms 1125W 2250W 0.225A 0.1ms 0.0ms	0.65ec. 255 255 255 c. or Cont. 15ec. 00ms 12.5Arms 12.5Arms 15000W 30000W 0-225A -0.55ec. 0-112.5A 0-225A 0-55ec. 0-112.5A Sec. or Cont. 00V 01V 01V	225Ams 18750W 37500W 0-225A 0-112.5A 0-225A	225Ams 22500W 45000W 0-225A 0-112.5A 0-225A
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo ON OPP Short/OPP/OCP Test Function Turbo ON OPP OCP Step Time Turbo ON OCP Istop Turbo ON OCP Istop Turbo ON OCP Istop Turbo ON OPP Potop Turbo ON Programmable Innush Current Simulation: Istart - Ist Istart, Innush Start Current Innush Step Time Istart, Innush Start Current Tartho ON TJ and T2 Time Tartho ON SJ Current Timb MEASUREMENTS YOLTACE READBACK A METER Mange Resolution Accuracy Parameter CURRENT READBACK A METER CURRENT READBACK A METER	: : : : : : : : : : : : : :	75Arms 150Arms 7500W 15000W 0–150A 0–75A 0–75A	0.1- 	05ec. 235 C. or Cont. 15ec. 00ms to 10 Steps 12.5Arms 125Arms 15000W 0-225A 0-225A 0-112.5A 0-225A 0-55ec. 0-55ec. 0-55ec. 0-55ec. 0-112.5A 100ss 0-225A 0	225Arms 18750W 37500W 0-225A 0-112.5A 0-225A 0-112.5A	225Arms 22500W 45000W 0-225A 0-112.5A 0-225A 0-112.5A
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short Time Turbo OF OPP/OCP Step Time Turbo OF Turbo OF Turbo OF OCP Istop Turbo OF OCP Istop Turbo OF Turbo OF Turbo OF Programmable Innush Current Simulation: Istart-Ist Istart, Innush Start Current Innush Step Time Turbo OF Stop Current Simulation: S1/TI-S2 S1 and S2 Current Time S3 Current Time Time SUVCITACE READBACK A METER Range Resolution Accuracy Parameter	: 56Arms : 56Arms : 112Arms : 5600W 1120W op / Tsep 0-112A 0-56A (T2 - SA/T3 0-112A	75Arms 150Arms 7500W 15000W 0~150A 0~75A 0~150A	0.1- 	05ec. 05 Sec. 255 255 c. or Cont. 15ec. 00ms 12.5Arms 225Arms 15000W 225Arms 15000W 0-225A 0-712.5A 0-712.5A 0-55ec. 0-55ec. 0-55ec. 0-55ec. 0-55ec. 0-112.5A 5ec. or Cont. 00V 01V 01V 01V 025Arms 1.20A/24rmA	225Ams 18750W 37500W 0-225A 0-112.5A 0-225A	225Ams 22500W 45000W 0-225A 0-112.5A 0-225A
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Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo ON Short Time Turbo ON OPP/OCP Step Time Turbo ON OPP Stop Turbo ON OCP Istop Turbo ON OCP Istop Turbo ON OPP Potop Turbo ON Turbo Start Current Turbo ON Inrush Start Current Turbo ON Programmable Innush Current Simulation: Istart - Ist Istart, Innush Start Current Inrush Step Time Istart, Innush Start Current Istart, Innush Start Current Timb ON St Current Timb ON TJ and T2 Time Start Current St Current Timb ON MEASUPEMENTS VOLYAGE READBACK A METER Range Resolution Accuracy Parameter CURRENT READBACK W METER Range Recolution Accuracy Yower Factor METER Parameter VANETER Parameter Other Parameter METER Parameter	2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	75Arms 150Arms 7500W 15000W 0-150A 0-75A 0-75A 0-75A 0-75A 0-75A 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_1, Ipeak, Im	0 -1- = 0.0 = 0.0 0.1-10Se 0.1-10Se 0.1-10Se 0.1-10Se 100ms, up 1125Arms 1125W 225Arms 1125W 0.225A 0.1rms 0112.5A 0.0-12.5A 0.01-9.99 0.00-9.99	05ec. 05 Sec. 255 255 255 255 255 255 255 25	225Arms 18750W 37500W 0-225A 0-112.5A 0-225A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4rmA 18750W 0.3125W	225Arms 22500W 45000W 0-225A 0-112.5A 0-225A 0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4rmA
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OR Short Time Turbo OR OPP/OCP Step Time Turbo OR OPP Stop Turbo OR OCP Istop Turbo OR OPP Potop Turbo OR Turbo OR Turbo OR OPP Potop Turbo OR Turbo Start Current Turbo OR Inrush Start Current Turbo OR Porgaramable Insush Current Simulation: Start - Ist Istart, Insush Start Current Inrush Step Time Istop Istart Start Current 11 and T2 Time SI and S2 Current Torbo OR 71 and T2 Time SUPOTAGE READBACK A METER Range Resolution Accuracy Accuracy VOLTAGE READBACK A METER Range Resolution Accuracy Accuracy Parameter CURRENT READBACK W METER Range Accuracy Parameter Power Factor METER Range Resolution Accuracy Accuracy	2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	75Arms 150Arms 7500W 15000W 0-150A 0-75A 0-75A 0-75A 0-75A 0-75A 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_1, Ipeak, Im	0 -1-	05ec. 05 Sec. 255 255 255 255 255 255 255 25	225Arms 18750W 37500W 0-225A 0-112.5A 0-225A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4rmA 18750W 0.3125W	225Arms 22500W 45000W 0-225A 0-112.5A 0-225A 0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4rmA
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short Time Turbo OF OPP/OCP Step Time Turbo OF ODP Poop Turbo OF OCP Istop Turbo OF Turbo OF Turbo OF OCP Istop Turbo OF Programmable Innush Current Simulation: Istart - Ist Innush Start Current Turbo OF Programmable Surge Current Simulation: S1/TI - S2 S1 and S2 Current T1 and T2 Time S3 Current T3 Time MEASUREMENTS VOLTACE READBACK A METER Range Resolution Accuracy Parameter VATT READBACK A METER Range Recolution Accuracy Parameter WATT READBACK A METER Range Recolution Accuracy Parameter CURERTR RADBACK A METER Range Recolution Accuracy Other Parameter Other Range Recolution Accuracy Other Range Recolution Accuracy	2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	75Arms 150Arms 7500W 15000W 0-150A 0-75A 0-75A 0-75A 0-75A 0-75A 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_1, Ipeak, Im	0 -1- +	05ec. 05 Sec. 255 255 257 257 257 257 257 257	225Arms 18750W 37500W 0-225A 0-112.5A 0-225A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4rmA 18750W 0.3125W	225Arms 22500W 45000W 0-225A 0-112.5A 0-225A 0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4rmA
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo ON Short/DPP/OCP Step Time Turbo ON OPP/OCP Step Time Turbo ON OCP Istop Turbo ON OCP Istop Turbo ON OPP Patop Turbo ON Turbo Start Current Turbo ON Innush Start Current Turbo ON Programmable Innush Current Simulation: Istart - Ist Istart, Innush Start Current Innush Stop Gurent Fregaramable Surge Current Simulation: S1/TI - S2 S1 and S2 Current Ti and T2 Time S3 Current Ti Time T3 Time SUPOLITACE REABACK A METER Range Resolution Accuracy Parameter VATT READBACK A METER Range Resolution Accuracy Parameter VATT READBACK M METER Range Resolution Accuracy Parameter VMIT TEEADBACK M METER Range Resolution Accuracy VMATTER Power Factor METER<	2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	75Arms 150Arms 7500W 15000W 0-150A 0-75A 0-75A 0-75A 0-75A 0-75A 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_1, Ipeak, Im	0.1-1 at 0.0 0.1-105c 0.1-105c 0.1-105c 0.1-105c 100ms, up 1125Ams 11250W 0-225A 0.1ms 0-1125A 0.1ms 0-125A 0.1ms 0.1-125A 0.1ms 0.1-125A 0.1ms 0.1-125A 0.1ms 0.1-125A 0.1ms 0.1-125A 0.1ms 0.1-125A 0.1ms 0.1-125A 0.1ms 0.1-125A 0.1-125A 0.01-999 0.01-999 0.005% of (r Vrms,VMs 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 0.1875W 1.2mA/2.4mA 0.1875W 0.1875W 0.002±(1.2ma) 0.002±(1.0m	05ec. 05 Sec. 255 255 255 257 257 257 257 257	225Arms 18750W 37500W 0-225A 0-112.5A 0-225A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4rmA 18750W 0.3125W	225Arms 22500W 45000W 0-225A 0-112.5A 0-225A 0-112.5A 0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short/DPP/OCP Sets Function Turbo OF OPP/OCP Step Time Turbo OF OPP Jobp Turbo OF OCP Istop Turbo OF OPP Patop Turbo OF Programmable Innush Current Simulation: Istart-Ist Innush Stag Turbo ON Innush Stag Turent Turbo ON Programmable Surge Current Simulation: SI/TI - S2 SI and S2 Current Ti and T2 Time SUCVITACE REABACK A METER Range Resolution Accuracy Parameter VOLTACE REABACK A METER Range Resolution Accuracy Parameter VAMETER Range Resolution Accuracy OHer Parameter METER VMATT READACK W METER Range Recolution Accuracy Accuracy OHer Parameter METER Star up Loading Load ON JOFF Angle Load ON JOFF Angle Aphase or Parallel Application) External STNC I	2 5 2 5 3 112Ams 3 5600W 4 0-56A 7 0-56A 7 0-56A 0 0-112A 0 0-112A 0 0-56A 7 0-56A 28Arms/56Ams 0.6mA/12mA 0.6mA/12mA 0.1W 1 0.1W	75Arms 150Arms 7500W 15000W 0-150A 0-75A 0-75A 0-75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_I, Ipeak, Im VA, VAR, CF_I, Ipeak, Im	0.1-1 + 30.0 0.1-1055 0.1-1055 112.54rms 1254rms 1254rms 1254rms 0.1254 0.1254 0.1254 0.1254 0.1254 0.1254 0.1254 0.12554 0.12554 0.12554 0.01-999 0.01-990 0.01-900 0.02-0000 0.02-0000 0.02-0000 0.02-0000 0.02-0000 0.02-	OSec. 00 Sec. 00 Sec. 235 235 112.5Arms 100 Step. 212.5Arms 100 Step. 212.5Arms 100 Step. 225Arms 100 Step. 225Arms 100 Step. 0.225A 0.000W 0225A 0.000W 0.012.5A 0.000W 0.012.5A 0.000W 0.012.5A 0.00V 0.012.5A 0.012.5A 0.012.5A 0.00V 0.012.5A 0.00V 0.012.5A 0.00V 0.012.5A 0.00V 0.012.5A 0.00V 0.000V 0.00V 0.000V 0.001V 0.000V 0.001VFF)*F) 1.0000W 0.001VFF)*F) 1.0000V 0.001VFF)*F)	225Arms 18750W 37500W 0-225A 0-112.5A 0-225A 0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 1.2mA/2.4mA 0.3125W 0.3125W	225Arms 22500W 45000W 0-225A 0-112.5A 0-225A 0-112.5A 0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W 0.375W
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short Time Turbo OF OPP/OCP Step Time Turbo OF ODP Plotop Turbo OF Turbo OPP Turbo OF OPP Potop Turbo OF Turbo OPP Turbo OF OPP Patop Turbo OF Turbo Start Current Turbo OF Inrush Start Current Turbo OF Programmable Innush Current Simulation: Istart - Ist Istart, Innush Start Current Inrush Stap Current Timbo OS St Current Timb OS St Current Timb OS St Current Timb St Current Timb St Current Timb St Current Timb Ta Time Sacurent Ta Time Current Ta Time Sacurent Ta Time Current Sacuracy Current Parameter Curacy Parameter Curacy Parameter Curacy Ot	2 5 5 5 5 5 5 5 5 5 5 5 5 5	75Arms 150Arms 7500W 15000W 0-150A 0-75A 1500W 0.125W VA, VAR, CF_1, Ipeak, Im Postive o ±225Apk / ±10Vpk 270VA	0 -1-1 +0 -0 0 -112.5A 0 -0 0 -0	05ec. 05 Sec. 255 255 255 15 Contemporal Sec. 255 10 10 Step 12 January 25 Arms 1 22 Jarms 1 23 Arms 1 23 Arms 1 23 Arms 1 2000W 0 - 225 A -100ms 0 - 12 5 A 0 - 225 A 0 - 12 5 A 0 - 225 A 0 - 12 5 A 0 - 12 5 A 0 - 225 A 0 - 12 5 A 0 - 12 5 A 0 - 225 A 0 - 12 5 A 0 - 12 5 A 5 6 2 5 Arms/12 5 Arms 1 2 mA/2 4 mA 1 3 5 000 W 001 / PF i= 5 -440 Hz 1 3 % 0 - 1.000 0 0.01 / PF i= 5 -440 Hz 1 3 % A 1 3 7 5 Apk / ±10 Vpk 1 3 7 5 Apk / ±10 Vpk 1 3 10 VA 0 C	225Arms 18750W 37500W 0-225A 0-112.5A 0-225A 0-112.5A 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 18750W 0.3125W 0.3125W 0.3125W	225Arms 22500W 45000W 0-225A 0-112.5A 0-225A 0-112.5A 0-112.5A 1.2mA/2.4rmA 22500W 0.375W 0.375W 22500W 0.375W
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo OF Short Time Turbo OF OPP/OCP Step Time Turbo OF Turbo OF Turbo OF OCP Istop Turbo OF OPP Popo Turbo OF Turbo OF Turbo OF OPP Patop Turbo OF Turbo OF Turbo OF Programmable Innush Current Simulation: Istart - Ist Innush Star Current Turbo OF Torgarannable Surge Current Simulation: SI/TI - SZ SI and S2 Current Timb OS Ti and T2 Time SI SASUREMENTS VOLTACE READBACK A METER Range Resolution Accuracy Parameter CURRENT READBACK A METER Range Resolution Accuracy VA METER Power Factor METER Parage Range Accuracy OTHERS Start OP Loading Half Cycle and SCR/TRIAC Loading Half Cycle and SCR/TRIAC Loading Half Cycle and SCR/TRIAC Loading Half Cycle and SCR/TRIAC Loading Half Cycle and SCR/TRIAC Loading Half Cycle and SCR/TRIAC Loading Half Cycle and SCR/TRIAC Loading Half Cycle and SCR/TRIAC Loading Half Cycle and SCR/	2 5 5 5 5 5 5 5 5 5 5 5 5 5	75Arms 150Arms 7500W 15000W 0-150A 0-75A 0-150A 0-75A 0-75A 0-75A 0-75A 0-75A 0-150A 0-75A 0-75W 0-125W Postive o ±225Apk / ±10Vpk 270VA -V=1.2 ; -V=8.8	0 -1 = 200 0 - 200 0 - 200 0 - 200 0 - 100 0 - 100 0 - 100 0 - 100 0 - 225Ams 1125W 0 - 225A 0 - 1125A 0 - 259 degree can be programmed for t 12000 + (-0.00 + (-0.00 - 125A (- 0.00 - 125A 0 - 359 degree can be programmed for t 0 - 359 degree can be programmed for t 0 - 359 degree can be programmed for t - 500 - 510Vac - 500 - 510Vac - 500 - 510Vac - 500 - 510Vac - 500 0V*1.8; -V*13.2	OSec. OSec. OSec. Sec. Se	225Arms 18750W 37500W 0-225A 0-112.5A 0-225A 0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4rmA 1.2mA/2.4rmA 1.2mA/2.4rmA 8 56.25Arms/112.5Arms 1.2mA/2.4rmA 1.2mA/2.4rmA 1.2mA/2.4rmA 1.2mA/2.4rmA 1.2mA/2.4rmA	225Arms 22500W 45000W 0-225A 0-112.5A 0-112.5A 0-112.5A 0-112.5A 0-112.5A 0-112.5A 1.2mA/2.4mA 22500W 0.375W 0.375W 0.375W 0.375W
Inp & Non-Inp Ime Turbo ON Mess. Accuracy Repeat Cycle Short/OPP/OCP Test Function Turbo ON Short/DPP/OCP Sets Function Turbo ON OPP/OCP Step Time Turbo ON OPP/OCP Step Time Turbo ON OCP Istop Turbo ON OCP Istop Turbo ON OPP Patop Turbo ON Programmable Innush Current Simulation: Istart-Ist Innush Step Turbo ON Innush Step Time Turbo ON Istart, Innush Start Current Innush Step Time Istop Start Current Timbo ON You Trans Step Time Turbo ON Start Current Tima Time S3 Current Ti and T2 Time S3 Current Ti Time T3 Time SAUREMENTS VOLTACE READBACK A METER Range Resolution Accuracy Parameter QUART READBACK A METER Range Resolution Accuracy Parameter VM HTEEADBACK W METER Range Recolution Accuracy	2 5 5 5 5 5 5 5 5 5 5 5 5 5	75Arms 150Arms 7500W 15000W 0-150A 0-75A 1500W 0.125W VA, VAR, CF_1, Ipeak, Im Postive o ±225Apk / ±10Vpk 270VA	0 -1-1 +0 -0 0 -112.5A 0 -0 0 -0	05ec. 05 Sec. 255 255 255 15 Contemporal Sec. 255 10 10 Step 12 January 25 Arms 1 22 Jarms 1 23 Arms 1 23 Arms 1 23 Arms 1 2000W 0 - 225 A -100ms 0 - 12 5 A 0 - 225 A 0 - 12 5 A 0 - 225 A 0 - 12 5 A 0 - 12 5 A 0 - 225 A 0 - 12 5 A 0 - 12 5 A 0 - 225 A 0 - 12 5 A 0 - 12 5 A 5 6 2 5 Arms/12 5 Arms 1 2 mA/2 4 mA 1 3 5 000 W 001 / PF i= 5 -440 Hz 1 3 % 0 - 1.000 0 0.01 / PF i= 5 -440 Hz 1 3 % A 1 3 7 5 Apk / ±10 Vpk 1 3 7 5 Apk / ±10 Vpk 1 3 10 VA 0 C	225Arms 18750W 37500W 0-225A 0-112.5A 0-225A 0-112.5A 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 18750W 0.3125W 0.3125W 0.3125W	225Arms 222500W 45000W 0-225A 0-112.5A 0-225A 0-112.5A 0-112.5A 0-112.5A 1.2mA/2.4mA 22500W 0.375W 0.375W 0.375W

*1 ms (millisiemens) is the unit of conductance(G), one siemens equal to $1/\Omega$ *2 Operating temperature range is 0–40°C, all specification apply for 25°C±5°C, Except as noted *3 Turbo mode for up to 2X Current rating & Power rating support Fuse, Short/OCP/OPP test function

			SPF	CIFICATIONS			
MODEL		AEL-5006-425-56	AEL-5008-425-75	AEL-5012-425-112.5	AEL-5015-425-112.5		AEL-5023-425-112
Power (W) Current(Ampere)		5600 W 56 Arms / 168Apeak	7500 W 75 Arms / 225Apeak	11250W 112.5 Arms / 337.5Apeak	15000 W 112.5 Arms / 337.5Apeak	18750W 112.5 Arms / 337.5Apeak	22500W 112.5 Arms / 337.5Apeak
Voltage(Volt) FREQUENCY Range				50~425Vrm DC,40~440Hz(CC,CP Mode) ,	ns / 600Vdc		
Over Power Protection		≒ 5880Wrms or Programmable	≒ 7875Wrms or Programmable	≒11812.5Wrms or Programmable		≒19687.5Wrms or Programmable	≒23625Wrms or Programmable
Over Current Protection		Solowing of Programmable	= 7875 wrms or Programmable	≒ 118.125 Arms or Programmable	≒ 118.125 Arms or Programmable	= 118.125 Arms or Programmable	= 118.125 Arms or Programmable
Over Vlotage Protection Over Temp. Protection				= 446.25 Vi Ye	rms/630Vdc es		
OPERATION MODE Constant Current Mode for Sine-Wa	ve						
Range Resolution		0~56A 1mA/16bits	0~75A 1.25mA/16bits	0~112.5A 1.875mA/16bits	0~112.5A 1.875mA/16bits	0~112.5A 1.875mA/16bits	0~112.5A 1.875mA/16bits
Accuracy	ine.Wave Square	Wave or Quasi-Square Wave, PWM Wave	· · · · ·	± (0.1% of setting + 0.2		,	
Range Resolution	nie wave, square	0~56A 1mA/16bits	0~75A 1.25mA/16bits	0~112.5A 1.875mA/16bits	0~112.5A 1.875mA/16bits	0~112.5A 1.875mA/16bits	0~112.5A 1.875mA/16bits
Accuracy		Ima/ Ibbits	1.25MA/ l6bits	± (0.1% of setting + 0.2		1.875mA/16bits	1.875mA/16bits
Constant Resistance Mode Range		1 ohm ~ 20K ohm	0.8 ohm ~ 16K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm
Resolution*1 Accuracy		0.016666mS/16bits	0.020832mS/16bits	0.031248mS/16bits ±0.2% of (setting +	0.031248mS/16bits + range) @ 50/60Hz	0.031248mS/16bits	0.031248mS/16bits
Constant Voltage Mode Range				50~425Vrm			
Resolution Accuracy				0. ±0.2% of (setting +	1V		
Constant Power Mode							
Range Resolution		5600W 0.1W	7500W 0.1W	11250W 1W	15000 W 1W	18750W 1W	22500W 1W
Accuracy CREST FACTOR (CC & CP MODE O	NLY)			±0.2% of (setting +	- range) @ 50/60Hz		
Range Resolution				√2 0.	2-5		
Accuracy POWER FACTOR (CC & CP MODE				(0.5% / Irm			
Range	ONLI			0~1 Lag			
Resolution Accuracy				0.1			
EST MODE UPS Efficient Measurement				Non-Line	ear Mode		
Operating Frequency Current Range		0~56A	0~75A	Auto ; 40 0-112.5A		0-112.5A	0~112.5A
PF Range		0-500	0-75A	0-112.5%		0-112.5A	0-112.5A
Measuring Efficiency For PV System Power Conditioners for THD 80%	5,			Resistive + No			
Operating Frequency Current Range		056A	0~75A	Auto ; 40 0112.5A	0440Hz 0112.5A	0~112.5A	0~112.5A
Resistive Range UPS Back-Up Function(CC,LIN,CR,C	CP)	1 ohm ~ 20K ohm	0.8 ohm ~ 16K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm	0.533 ohm ~ 10.666K ohm
UVP (VTH) UPS Back-Up Time	/			50425Vrm 199999 Si			
Battery Discharge Function (CC,LIN,	CR,CP)						
UVP (VTH) Battery Discharge Time				50~425Vm 1–99999 S			
UPS Transfer Time Current Range		0~56A	0~75A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
UVP (VTH) Time range				2. 0.15ms-5	5V		
Fuse Test Mode							
Max. Current	Turbo OFF Turbo ON	75Arms 150Arms (x2) *3	75Arms 150Arms (x2) *3	112.5Arms 225Arms (x2) *3	112.5Arms 225Arms (x2) *3	112.5Arms 225Arms (x2) *3	112.5Arms 225Arms (x2) *3
Trip & Non-Trip Time	Turbo OFF Turbo ON			0.1-999	.0Sec.		
Meas. Accuracy Repeat Cycle				±0.00			
Short/OPP/OCP Test Function	Turbo OFF			0.1–10Sec	c or Cont		
Short Time	Turbo ON			0.1-	1Sec.		
OPP/OCP Step Time	Turbo OFF Turbo ON			100ms, up	to 10 Steps		
OCP Istop	Turbo OFF Turbo ON	56Arms 112Arms	75Arms 150Arms	112.5Arms 225Arms	112.5Arms 225Arms	112.5Arms 225Arms	112.5Arms 225Arms
OPP Pstop	Turbo OFF Turbo ON	5600W 11200W	7500W 15000W	11250W 22500W	15000W 30000W	18750W 37500W	22500W 45000W
Programmable Inrush Current Simu Istart, Inrush Start Current			0~150A	0-225A	0-225A	0~225A	0~225A
Inrush Step Time		0~56A	0~75A	0.1ms-		0~112.5A	0~112.5A
Istop, Inrush Stop Current Programmable Surge Current Simul	ation: S1/T1 - S2		0~73A	0~112.5A	0~112.5A	0~112.5A	0~112.5A
S1 and S2 Current T1 and T2 Time		0~112A	0~150A				
S3 Current				0-225A 0.01-0	0225A 0.5Sec.	0-225A	0~225A
13 Time		0~56A	0~75A		0.5Sec. 0~112.5A	0~225A 0~112.5A	0~225A 0~112.5A
MEASUREMENTS		056A		0.01-0 0~112.5A	0.5Sec. 0~112.5A		
MEASUREMENTS VOLTAGE READBACK A METER Range		0-56A		0.01 0112.5A 0.01-9.995 60	0.5Sec. 0-112.5A iec. or Cont.		
MEASUREMENTS VOLTAGE READBACK A METER Range Resolution Accuracy		0-56A		0.01-(0-112.5A 0.01-9.995 660 0.0 ±0.05% of (rea	0.5Sec. 0-112.5A ecc. or Cont. 0V 0V 01V ding + range)		
MEASUREMENTS VOLTAGE READBACK A METER Range Resolution			0-75A	0.01- 0-112.5A 0.01-9.995 60 0.00 ±0.05% of (res Vrms,V Max	0.55ec. 0-112.5A ec. or Cont. 0V 11V uding. + range) (Min,+/-Vpk	0-112.5A	0-112.5A
MEASUREMENTS VOLTAGE READBACK A METER Range Resolution Accuracy Parameter		0-56A 28Arms/56Arms 0.6mA/1.2mA		0.01-(0-112.5A 0.01-9.995 660 0.0 ±0.05% of (rea	0.5Sec. 0-112.5A ecc. or Cont. 0V 0V 01V ding + range)		
MEASUREMENTS VOLTAGE READBACK A METER Range Resolution Accuracy Parameter CURRENT READBACK A METER Range Resolution Accuracy		28Arms/56Arms	075A 37.5Arms/75Arms	0.01 0112.5A 0.01-9.995 60 0.0 ±0.05% of (res Vrms, V Max 56.25Arms/112.5Arms 1.2mA/2.4mA a.01% of (reading, 4	0.55ec. 0-112.5A ec. or Cont. 0V 11V uding. + range) (Min. +/Vpk 56.25Arms/112.5Arms 1.2m/2.4mA range () 50(Obl z	0-112.5A	0-112.5A
WEASUREMENTS VOLTAGE READBACK A METER Range Accuracy Parameter ZURRENT EAADBACK A METER Range Resolution Accuracy Parameter WATT READBACK W METER		28Arms/56Arms 0.6mA/1.2mA	0–75A 37.5Arms/75Arms 0.8mA/1.6mA	0.01-(0-112.5A 0.01-9.995 60 ±0.05% of (re- Vms.) Max 1.2mk/2.4mA ±0.0% of (reading 4 ±0.0% of (reading 4 ±1ms,1 Max,	0.55ec. 0112.5A ec. or Cont. 0V 11V 10V 10V 10V 10V 10V 10V	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA	0-112.5A
WEASUREMENTS VOLTAGE READBACK A METER Range Resolution Accuracy Parameter URRENT READBACK A METER Range Resolution Accuracy Parameter WATT READBACK W METER Range Resolution		28Arms/56Arms	075A 37.5Arms/75Arms	0.01-(0-112.5A 0.01-9.995 60 ±0.05% of (res Vrms, V Max 1.2mX/2 4mA ±0.1% of (reading + ±ms,1 Max, 11250W 0.1875W	0.55ec. 0112.5A ec. or Cont. 0V 11V 100(n, +range) 1/Min, +/Vpk 56.25Arms/112.5Arms 1.2mA/2.4mA range @ 50/60Hz /Min, +/lpk 15000W 0.25W	0-112.5A	0-112.5A 56.25Arms/112.5Arms
WEASUREMENTS VOLTAGE READBACK A METER Range Resolution Accuracy Parameter CURRENT READBACK A METER Range Resolution Accuracy Parameter Range Resolution Accuracy Range Resolution Accuracy		28Arms/56Arms 0.6mA/1.2mA 5600W	0-75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W	0.01-(0-112.5A 0.01-9.995 60 0.0 1.005% of (res Vrms, V Max 1.2mA/2 AmA a.0.1% of (reading + 11250W 0.1875W 0.1875W 0.0.1875W 0.0.1875W	0.55ec. 0-112.5A ec. or Cont. 0V 0V 010 + range) Min.+/-Vpk 56.25Arms/112.5Arms 1.2mk/2ArmA + range) @ 50/50Hz Min.+/-Ipk 15000W 0.25W 0.75W 0.75W 0.75W	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
VEASUREEMENTS OOLTAGE READBACK A METER Bange Resolution Accuracy Parameter URRENT READBACK A METER Range Resolution Accuracy Parameter Range Resolution Accuracy ACUT READBACK W METER Range Accuracy VAM TETER		28Arms/56Arms 0.6mA/1.2mA 5600W	0-75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W	0.01-(0-112.5A 0.01-9.995 600 0.0 ±0.05% of (reading + 1.2mk/2.4mA ±0.1% of (reading + 1.1250W ±0.1875W ±0.2% of (reading + range) @ 50/5 Vrms.Vms.Correspo	0.55ec. 0-112.5A ec. or Cont. 0V 1VI 10V 10V 10V 10V 10V 10V 10V 10V	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
WEASUREKIENTS OVIJTAGE READBACK A METER Range Resolution Accuracy Parameter CURRENT READBACK A METER Range Resolution Accuracy Parameter Range Resolution Accuracy ACCURACY AC		28Arms/56Arms 0.6mA/1.2mA 5600W	0-75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W	0.01-(0-112.5A 0.01-9.995 60 0.0 1.005% of (res Vrms, V Max 1.2mA/2 AmA a.0.1% of (reading + 11250W 0.1875W 0.1875W 0.0.1875W 0.0.1875W	0.55ec. 0112.5A ec. or Cont. 0V 1IV sding. + range) Mins, -/ Vpk 56.25Arms/112.5Arms 1.2mA/2.4mA range @ 50/60Hz [Mins, -/ Ipk 15000W 0.25W 0.25W 0.25W 0.25W 0.25W 0.25W 0.4% of (reading + range) di To.Vrms and Arms	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
VEASUREMENTS OCITAGE READBACK A METER Range Resolution Accuracy Parameter Range Resolution Accuracy Parameter Resolution Accuracy Parameter Resolution Accuracy ACT READBACK W METER Range Resolution Accuracy VA METER Resolution Accuracy VA METER Resolution Accuracy Resolution Accuracy Cover Factor METER Range Accuracy VA METER Range Resolution Resolution Resolution Accuracy VA METER Range Resolution Resol		28Arms/56Arms 0.6mA/1.2mA 5600W	0-75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W	0.01-(0-112.5A 0.01-9.995 60 0.0 ±0.05% of (rea Vrms,V Max 56.25Arms/112.5Arms 1.2mA/2.4mA a.01% of (reading + 1.2mA/2.4mA 1.1250W 0.1375W ±0.2% of (reading + range) @ 50/6 Vrms/Arms Correspo ±/c.000 ±(0.002±(0. DC,40-	0.55ec. 0-112.5A ec. or Cont. 0V 0V 0V 0V 0V 0V 0V 0V 0V 0V	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
MEASUREMENTS OVITAGE READBACK A METER Resolution Accuracy Parameter Range Resolution Accuracy Parameter Resolution Accuracy Parameter MATT READBACK W METER Range Resolution Accuracy VA METER Parator METER Range Resolution Accuracy VA METER Parator METER Range Accuracy Accuracy Range Accuracy Accuracy Range Accuracy		28Arms/56Arms 0.6mA/1.2mA 5600W	0–75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W	0.01 0-112.5A 0.01-9.995 0.01-9.995 0.01 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.55ec. 0-112.5A ec. or Cont. 0V 0V 0V 0V 0V 0V 0V 0V 0V 0V	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
MEASUREMENTS VOLTAGE READBACK A METER Range Resolution Accuracy Parameter Resolution Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy Accuracy Accuracy Accuracy VA METER Power Factor METER Range Accuracy Frequency METER[V] Range Accuracy		28Arms/56Arms 0.6mA/1.2mA 5600W	0–75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W	0.01-(0-112.5A 0.01-9.995 60 0.0 ±0.05% of (rea Vrms,V Max 56.25Arms/112.5Arms 1.2mA/2.4mA a.01% of (reading + 1.2mA/2.4mA 1.1250W 0.1375W ±0.2% of (reading + range) @ 50/6 Vrms/Arms Correspo ±/c.000 ±(0.002±(0. DC,40-	0.55ec. 0-112.5A ec. or Cont. 0V 0V 0V 0V 0V 0V 0V 0V 0V 0V	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
MEASUREMENTS VOLTACE READBACK A METER Resolution Accuracy Parameter Resolution Accuracy Parameter Resolution Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VAT READBACK W METER Range Accuracy Yo METER Power Factor METER Range Accuracy Accuracy METER Power Factor METER Range Accuracy Other Parameter METER Startup Loading		28Arms/56Arms 0.6mA/1.2mA 5600W	0-75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_1, Ipeak,	0.01-1 0112.5A 0.01-9.995 0.01-9.995 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5 Sse. 0-112.5A ec. or Cont. 0V 017 001 018 019 019 019 019 019 019 019 019	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W 0.3125W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
MEASUREMENTS VOLTACE READBACK A METER Range Resolution Accuracy Parameter Resolution Accuracy Parameter Resolution Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VATER Power Factor METER Range Accuracy VM METER Power Factor METER Range Accuracy VETER Power Factor METER Range Accuracy State METER Power Factor METER Construction Accuracy Differ Parameter METER Statu up Loading Load (N) OFF Angle Half Cycle and SCR/TRAC Loading		28Arms/56Arms 0.6mA/1.2mA 5600W	0–75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_J, ipeak,	0.01-1 0112.5A 0.01-9.995 0.01-9.995 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5 Sse. 0-112.5A ec. or Cont. 0V 017 007 018 019 019 019 019 019 019 019 019	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W 0.3125W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
MEASUREMENTS VOITAGE READACK METER Range Resolution Accuracy Parameter CURRENT EEADBACK A METER Range Resolution Accuracy Parameter MATT READBACK W METER Range Resolution Accuracy VA METER Parameter Resolution Accuracy VA METER Parameter Resolution Accuracy VA METER Parameter METER Parameter METER Parameter METER Parameter METER Parameter METER Parameter METER Sange Accuracy Other Parameter METER Start up Loading Loadion () OFF Angle Half Cycle and SCR/TRAC Loading Mater/Sange Dhase or Paralled Pase or Pase		28Arms/56Arms 0.6mA/1.2mA 5600W	0–75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_J, ipeak,	0.01 0.01-2.5A 0.01-9.995 0.01-9.995 0.00 0.025% of (res Vms,V Max 0.05% of (reading + 1.25A/24mA 4.01% of (reading + 1.250W 0.1375W ±0.2% of (reading + range) @ 30(5 Vms,Vms, Correspond +) +0 00 ±(0.002±(0. 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0	5 Ssc. 0-112.5A ec. or Cont. 0V 11V 11V 11V 11C 12.5Arms/112.5Arms 1.2mA/2.4rmA 1.2mA/2.4rmA 1.2mA/2.4rmA 1.2mA/2.4rmA 1.2mA/2.4rmA 1.2mA/2.4rmA 0.25W 0.25	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W 0.3125W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
MEASUREMENTS VOLTAGE READBACK A METER Range Resolution Accuracy Parameter CURRENT EEADBACK A METER Range Resolution Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VATT READBACK W METER Range Resolution Accuracy VA METER Parameter Resolution Accuracy VA METER Range Accuracy Ower Factor METER Range Accuracy Other Parameter METER Start up Loading Loadion () / OFF Angle Half Cycle and SER/TRIAC Loading Master/Slave () Phase or Parallel Accuracy Other Parameter METER		28Arms/56Arms 0.6mA/1.2mA 5600W	0–75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_J, ipeak,	0.01 0.01 0.01-9.995 0.01-9.995 0.01-9.995 0.05% of (res Vms,V Max 0.05% of (reading + 1.2mA/2.4mA 4.01% of (reading + 1.2mS/2.4mA 4.01% of (reading + 1.2mS/2.4mA 4.01% of (reading + 1.2mS/2.4mA 4.01% of (reading + 1.2mS/2.4mA 4.01% of (reading + 1.2mS/2.4mA 1.250W 0.1375W ±0.25% of (reading + 1.2mS/2.4mA 0.01-9 0.017 0.0	5 Ssc. 0-112.5A ec. or Cont. 0V INV Soc. 25Arms/112.5Arms 1.2mA/2.4mA r.naple (25 G)CoHz /Min.r/Vpk 1.2mA/2.4mA r.naple (25 G)CoHz /Min.r/Jpk 15000W 0.25W 0.25W 0.25W 0.4% of (reading + range) 0d To Vrms and Arms 0-1000 001/PF)*F) -440Hz 1% up remeter / UPS start up eargle of load ON and load OFF loading rading of gade current waveform can be privation of 1V TL	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W 0.3125W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
MEASUREMENTS VOLTAGE READBACK A METER Range Resolution Accuracy Parameter CURRENT EADBACK A METER Range Resolution Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VA METER Range Accuracy VA METER Range Accuracy VA METER Range Accuracy Defre Parameter METER New Factor METER Range Accuracy Didre Parameter METER Start up Loading Load		28Arms/56Arms 0.6mA/1.2mA 5600W	0–75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_J, ipeak,	0.01 0.01 0.01-9.995 0.01-9.995 0.01-9.995 0.00 ±0.05% of (rea Vms./ Max 1.2mX/2.4mA ±0.% of (reading + 1.2mX/2.4mA ±0.% of (reading + 1.2mS/2.4mA ±0.1875W ±0.2% of (reading + ±0.1875W ±0.1875W ±0.2% of (reading + ±0.002±(0.0	5 Ssc. 0-112.5A ec. or Cont. 0V 10V 112.5Arms 1.2mA/2.4mA range () © 500Hz (Min,+/lpk 15000W 0.25W 0.25W 0.25W 0.40% of (reading + range) 0.1000 001/PF)*F) -440Hz 15% 40, VTHD ing Inverter / UPS start up readje of load ON and load OFF loadin reangle of load ON and load OFF loadin <	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W 0.3125W	0-112.5A 0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22500W
MEASUREMENTS VOI-TAGE READACK A METER Range Resolution Accuracy Parameter CURRENT EEADBACK A METER Range Resolution Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VATT READBACK W METER Range Accuracy VA METER Power Factor METER Parameter Accuracy Other Parameter METER Parameter METER Parameter METER Start up Loading Load ON / OFF Angle Half Cycle and SCR/TRAC Loading Master/Slave Q Phase or Parallel A External Programming Input (DPTIC External SYNC Input Winnohre (Isolated) Interface (DPTION) MAX: Power Cossumption		28Arms/56Arms 0.6mA/1.2mA	0-75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_1, Ipeak, Postive or	0.01-(0112.5A 0.01-9.995 0.01-9.995 0.00 ±0.05% of (reading + 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 4.01% of (reading + 1.2mS/4.4mA 1.250W 0.1875W ±0.2% of (reading + ±0.00 ±(0.002±(0. 0.1675W) +/-0.00 ±(0.002±(0. 0.01) 1.2% of (reading + 1.2mS/4.100, 0.11) (max, Imin, Vmax, Vmin, IHO, VHO, ITH Yes, Power on loading dur 0 - 359 degree can be programmed for th Negative half cycle, 90 Trailing deg ou 1. Vers, Tanster and F.5 / 10WC, R CPIB : IFS.33 390VA	5 Ssc. 0-112.5A ec. or Cont. 0V 11V oding. + range) Minn.;/Vpk 56.25Arms/112.5Arms 1.2mA/2.4mA range @ 50/60Hz Minn.;/Lpk 15000W 0.25W 0475 : 4.0.4% of (reading + range) 041 C Vrms and Arms 0-1000 001/PF)=F) -40Hz 1%	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W 0.3125W	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22590W 0.375W
MEASUREMENTS VOLTAGE READBACK A METER Range Resolution Accuracy Parameter CURRENT READBACK A METER Range Resolution Accuracy Parameter WATT READBACK W METER Range Accuracy VA METER Power Factor METER Power Factor METER Power Factor METER Power Factor METER Conter Des Conter Frequency METER[V] Range Accuracy Other Parameter METER DTHERS Start up Conf Angle Hafe Cycle and SCR/TRIAC Loading Master/Silvar (3 Phase or Parailel Ap External Programming Input (OPTI External STVC Input Vonnitor (Isolated) Imonifor (Isolated) Imonifor (Isolated) Imonifor (Isolated) Imonifor (Isolated)	DN)	28Arms/56Arms 0.6mA/1.2mA 5600W 0.1W 0.1W 1168Apk / ±10Vpk 220VA	0–75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_J, Ipeak, VA, VAR, CF_J, Ipeak, Postive or ±225Apk / ±10Vpk 270VA	0.01 0.01 0.01-2.5A 0.01-9.995 60 ±0.05% of (res Vms,VMax 1.2mk/2.4mA ±0.3% of (reading + 1.2mk/2.4mA ±0.3% of (reading + 1.2mk/2.4mA ±0.3% of (reading + 1.2mk/2.4mA ±0.3% of (reading + 1.2mk/2.4mA ±0.3% of (reading + ±0.0% of (reading + ±	5 Ssc. 0-112.5A ec. or Cont. 0// 0// 0//	0112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W 0.3125W 0.3125W 0.3125W 18750W 0.3125W	0-112 SA 56 25Arms/112 SArms 1 2mA/2.4mA 22500W 0.375W 0.375W ±337.5Apk / ±10Vpk 750VA
Resolution Accuracy Parameter CURRENT READBACK A METER Range Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VA METER Power Factor METER Range Accuracy Factor METER Range Frequency METER[V] Range	DN)	28Arms/56Arms 0.6mA/1.2mA 5600W 0.1W 0.1W	0-75A 37.5Arms/75Arms 0.8mA/1.6mA 7500W 0.125W VA, VAR, CF_1, ipeak, VA, VAR, CF_1, ipeak, Postive of #225Apk / ±10Vpk	0.01-(0112.5A 0.01-9.995 0.01-9.995 0.00 ±0.05% of (reading + 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 1.2mA/2.4mA 4.01% of (reading + 1.2mS/4.4mA 1.250W 0.1875W ±0.2% of (reading + ±0.00 ±(0.002±(0. 0.1675W) +/-0.00 ±(0.002±(0. 0.01) 1.2% of (reading + 1.2mS/4.100, 0.11) (max, Imin, Vmax, Vmin, IHO, VHO, ITH Yes, Power on loading dur 0 - 359 degree can be programmed for th Negative half cycle, 90 Trailing deg ou 1. Vers, Tanster and F.5 / 10WC, R CPIB : IFS.33 390VA	5 Ssc. 0-112.5A ec. or Cont. 0V 11V oding. + range) Minn.;/Vpk 56.25Arms/112.5Arms 1.2mA/2.4mA range @ 50/60Hz Minn.;/Lpk 15000W 0.25W 0475 : 4.0.4% of (reading + range) 041 C Vrms and Arms 0-1000 001/PF)=F) -40Hz 1%	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 18750W 0.3125W 0.3125W 2 2 2 2 2 2 2 2 2 2 2 2 2	0-112.5A 56.25Arms/112.5Arms 1.2mA/2.4mA 22590W 0.375W 2355W

*1 ms (millisiemens) is the unit of conductance(G), one siemens equal to 1/ Ω *2 Operating temperature range is 0–40°C, all specification apply for 25°C±5°C, Except as noted *3 Turbo mode for up to 2X Current rating & Power rating support Fuse, Short/OCP/OPP test function

MODEL		SPECIFICATIONS	AEL 5004 400 30
MODEL Power (W)		AEL-5003-480-18.75 2800W	AEL-5004-480-28
Current(Ampere) Voltage(Volt)		18.75 Arms / 56.25Apeak 50~480Vrms / 5	28 Arms / 84Apeak 700Vdc
FREQUENCY Range PROTECTIONS		DC,40~70Hz(CC,CP Mode) , DC-	
Over Power Protection		= 2940Wrms or Programmable	≒ 3937.5Wrms or Programmable
Over Current Protection Over Vlotage Protection		≒ 19.687 Arms or Programmable ≒ 504Vrms / 7	≒ 29.4 Arms or Programmable 35Vdc
Over Temp. Protection OPERATION MODE		Yes	
Constant Current Mode for Sine-Wa Range	ve	0~18.75A	0~28A
Resolution Accuracy		0.3125mA/16bits ± (0.1% of setting + 0.2% of	0.5mA/16bits
Linear Constant Current Mode for S	ine-Wave, Squar	e-Wave or Quasi-Square Wave, PWM Wave	
Range Resolution		0~18.75A 0.3125mA/16bits	0~28A 0.5mA/16bits
Accuracy Constant Resistance Mode		± (0.1% of setting + 0.2% of	f range) @ 50/60Hz
Range Resolution*1		4 ohm ~ 80K ohm 0.004166mS/16bits	2.5 ohm ~ 50K ohm 0.006666mS/16bits
Accuracy Constant Voltage Mode		±0.2% of (setting + rar	
Range		50~480Vrms / 3	/00Vdc
Resolution Accuracy		0.0125V ±(0.1% of setting + 0	1% of range)
Constant Power Mode Range		2800W	3750W
Resolution Accuracy		0.1W ±(0.1% of setting + 0	0.1W
CREST FACTOR (CC & CP MODE C	DNLY)		The officinger
Range Resolution		√2-5 0.1	
Accuracy POWER FACTOR (CC & CP MODE	ONLY)	(0.5% / Irms) +	
Range Resolution		0~1 Lag or L 0.01	ead
		1%F.S.	
UPS Efficient Measurement		Non-Linear M	
Operating Frequency Current Range		Auto ; 40~70	0-28A
PF Range Measuring Efficiency For PV System	is,	0-1 Resistive + Non-Li	and Mede
Power Conditioners for THD 80% Operating Frequency		Resistive + Non-Li Auto ; 40–70	
Current Range		0-18.75A 4 ohm ~ 80K ohm	0-28A 2.5 ohm ~ 50K ohm
Resistive Range UPS Back-Up Function(CC,LIN,CR,	CP)		
UVP (VTH) UPS Back-Up Time		50-480Vrms / 3 1-99999 Sec. (>27H)
Battery Discharge Function (CC, LIN, UVP (VTH)	CR,CP)	50~480Vrms /	/00Vdc
Battery Discharge Time UPS Transfer Time		1–99999 Sec. (
Current Range		0~18.75A	0~28A
UVP (VTH) Time range		2.5V 0.15ms-999:	99ms
Fuse Test Mode Max. Current	Turbo OFF	18.75Arms	28.0Arms
	Turbo ON Turbo OFF	37.5Arms (x2) *3 0.1-9999.9	56.0Arms (x2) *3 Sec.
Trip & Non-Trip Time Meas. Accuracy	Turbo ON	0.1–1.0Se ±0.003 Se	с.
Repeat Cycle		0~255	wr
Short/OPP/OCP Test Function Short Time	Turbo OFF	0.1–10Sec. or	
OPP/OCP Step Time	Turbo ON Turbo OFF	0.1–1Sec 100ms	-
	Turbo ON Turbo OFF	100ms, up to 1 18.75Arms) Steps 28.0Arms
OCP Istop	Turbo ON	37.5Arms	56.0Arms
OPP Pstop	Turbo OFF Turbo ON	2800W 5600W	3750W 7500W
Programmable Inrush Current Simu Istart, Inrush Start Current	lation: Istart - Is	top / Tsep 0~37.5A	0~56A
Inrush Step Time Istop, Inrush Stop Current		0.1ms-100 0-18.75A	ms0~28A
Programmable Surge Current Simul S1 and S2 Current	ation: S1/T1 - S2		0-56A
T1 and T2 Time		0.01-0.55	ec.
S3 Current T3 Time		0~18.75A 0.01-9.99Sec. o	0~28A or Cont.
MEASUREMENTS VOLTAGE READBACK V METER			
Range Resolution		700V 0.0125V	
Accuracy		±0.05% of (reading	range)
Parameter CURRENT READBACK A METER		Vrms,V Max/Mit	
Range Resolution		9.375Arms/18.75Arms 0.2mA/0.4mA	14Arms/28Arms 0.3mA/0.6mA
	-	±0.05% of (reading + ra Irms,I Max/Mir	nge) @ 50/60Hz .+/-Ipk
Accuracy Parameter			
Accuracy Parameter WATT READBACK W METER			
Accuracy Parameter WATT READBACK W METER Range Resolution		2800W 0.05W	3750W 0.0625W
Accuracy Parameter WATT READBACK W METER Range			0.0625W + range)
Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VA METER Power Factor METER		0.05W ±0.1% of (reading VrmsxArms Correspond T	0.0625W + range) o Vrms and Arms
Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VA METER Power Factor METER Range Accuracy Accuracy		0.05W ±0.1% of (reading	0.0625W + range) o Vrms and Arms 000
Accuracy Parameter Parameter Range Resolution Accuracy V VA METER Power Factor METER Range Accuracy Accuracy METER(V) Range		0.05W ±0.1% of (reading VmsxArms Correspond T +/ 0.000-1. ±(0.002±(0.00), DC.40-701	0.0625W + range)
Accuracy Parameter Range Renge Resolution Accuracy VA METER VA METER Nower Factor METER Range Accuracy Range Accuracy Range Accuracy Accuracy		0.05W ±0.1% of (reading VrmsxArms Correspond T +/- 0.000-1. ±(0.002±(0.00), DC,40-70) 0.1%	0.0625W + range) 0 Vrms and Arms 0000 PFPJ+FJ 42
Accuracy Parameter Range Resolution Accuracy VA METER VA METER VA METER Range Accuracy Range Accuracy Range Accuracy Range Accuracy Other Parameter METER		0.05W ±0.1% of (reading VmsxArms Correspond T +/ 0.000-1. ±(0.002±(0.00), DC.40-701	0.0625W + range) 0 Vrms and Arms 0000 PFPJ+FJ 42
Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy You METER Yower Factor METER Range Accuracy Frequency METER(M) Range Accuracy Other Parameter METER OTHERS Start up Loading	\	0.05W ±0.1% of (reading VrmsxArms Correspond T +/- 0.002-1; ±(0.002-1; 0:0) DC.40-70 0.1% A, VAR, CF_I, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, Yes, Power on loading during	0.0625W + range) o Virus and Arms 000 PF)+F) 4z THD THD
Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy YA METER Power Factor METER Range Accuracy Frequency METER(M) Range Accuracy Other Parameter METER OTHERS Start up Loading Load ON / OFF Angle		0.05W ±0.1% of [reading VrmsxArms Correspond T ±(+.0000-1) ±(0.002±(0.00) DC.40-70 0.1% A, VAR, CF_I, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, Ves, Power on loading during 0 - 359 degree can be programmed for the an Positive or Negative half-(ego or Titaling dego c Lead	0.0625W + range) o Vims and Arms 000 PP)*F) 42 THD THD THD The de Cardon and load OFF loading ing edge current waveform can be programmed
Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VA METER Power Factor METER Range Accuracy Frequency METER(M) Range Accuracy Other Parameter METER Other Parameter METER DTHERS Start up Loading Load ON / OFF Angle Half Cycle and SCR/RIAC Loading Master/Slave (3 Phase or Parallel A External Programming Input (OPI)	oplication)	0.05W ±0.1% of [reading VimsxArms Correspond T ±(0.002±(0.00) ±(0.002±(0.00) 0.1% A, VAR, CF_J, Ipeak, Imax, Imin, Vmax, Vmin, 1HD, VHD, 1THD, V Ves, Power on loading during: 0 ~ 359 degree can be programmed for the an Positive or Negative half cycle, 90° Trailing edge or Lead Yes, T master and upp F_S J 1V04C, Resul	0.0625W range 0.0625W virms and Arms Orms and Arms D00 PP>FF) tz TTHD reveter / UPS start up gle of load ONF loading ng edge current waveform can be programmed 7. Slave units
Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VA METER Range Accuracy Frequency METER() Range Accuracy Frequency METER() Chier Parameter METER OTHER Start up Loading Load ON / OFF Angle Lad OV, OFF Angle Lad Cy Canal Scr. RTRAC Loading Master/Slave (Planes or Parallel A) External Programming Input (OPTI External SPC Input	oplication)	0.05W ±0.1% of (reading VrmsxArms Correspond T +/- 0.000-1. ±(0.002±(0.00), DC,40-700 0.1% A, VAR, CF_J, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, V Ves, Power on loading during 0 - 359 degree can be programmed for the an Postive or Negative half cycle, 90 Trailing edge or Lead Postive or Negative half cycle, 90 Trailing edge or Tead F.S / 10Vdc, Resul F.S / 10Vdc, Resul	0.0625W + range) Vrms and Arms Vrms and Arms Vrms Vrms Vrms Vrms Vrm
Accuracy . Parameter WATT READBACK W METER Range Resolution Accuracy VA METER Range Accuracy Frequency METER() Range Accuracy Frequency METER() Range Accuracy Other Parameter METER OTHERS Start up Loading Load ON / OFF Angle Lad V) / OFF Angle La	oplication)	0.05W ±0.1% of reading VrmsxArms Correspond T +/- 0.000-1. ±(0.002±(0.00) DC,40-700 O.1% A. VAR, CF_I, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, V A. VAR, CF_I, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, VHD, VHD, VHD, VHD, VHD, VHD, VHD, V	0.0625W + range) Vrms and Arms 000 PEP+P) itz TTHD TTHD TTHD TTHD TTHD TTHD TTHD TO Start up gle of load ON and load OFF loading ng edge current waveform can be programmed T J slave units otion 0.1V 0V ±84Apk / ±10Vpk
Accuracy . Parameter WATT READBACK W METER Range Resolution Accuracy VA METER VA METER VA METER Range Accuracy Frequency METER(V) Range Accuracy Other Parameter METER OTHERS Surt up Loading Load ON / OFF Angle Half Cycle and SCR (TRIAC Loading Master/Slave (3 Phase or Parallel A External Programming Input (OPTI External SYNC Input Vinonitor (Isolated) Interface (OPTION) MAX Power Consumption	oplication)	0.05% ±0.1% of reading VrmsxArms Correspond T +/- 0.000-1, ±(0.002-0, 0.0) DC.40-701 DC.40-701 OC.40-701 O	0.0625W + range) Vrms and Arms 000 PEP+P) itz TTHD TTHD TTHD TTHD TTHD TTHD TTHD TO Start up gle of load ON and load OFF loading ng edge current waveform can be programmed T J slave units otion 0.1V 0V ±84Apk / ±10Vpk
Accuracy Parameter WATT READBACK W METER Range Resolution Accuracy VA METER Power Factor METER Range Accuracy Frequency METER(V) Range Accuracy Accuracy Accuracy Accuracy Other Parameter METER OTHERS Start up Loading Load ON / OFF Angle Half Cycle and SCR/TRIAC Loading Master/Slave G Phase or Parallel A External SYNC Input Vinonitor (Isolated) Imonitor (Isolated) Imonitor (Isolated)	oplication) DN)	0.05W ±0.1% of treading VimsxArms Correspond T +/ 0.000-1 ±(0.002±(0.00) DC.40-700 0.1% A, VAR, CF_I, Ipeak, Imax, Imin. Vmax, Vmin., IHD, VHD, ITHD, V Yes, Power on loading during 0 – 359 degree can be programmed for the an Positive or Negative half cycle. 90 Trailing edge or Lead Yes, T master and upb F.S. J IVAC, Resul TTL ±56.25Apk / ±10Vpk	0.0625W + range) Vrms and Arms 000 PEP+P) 4z TTHD TTHD TTHD TTHD TTHD TTHD TTHD TO Start up gle of load ON and load OFF loading ng edge current waveform can be programmed 7.5 slave units otion 0.1V 0V ±84Apk / ±10Vpk



*1 ms (millisiemens) is the unit of conductance(G), one siemens equal to $1/\Omega$ *2 Operating temperature range is 0–40°C, all specification apply for 25°C±5°C, Except as noted *3 Turbo mode for up to 2X Current rating & Power rating support Fuse, Short/OCP/OPP test function

	ORDER	ING INF	ORMATION	
AEL-5002-350-18.75 AEL-5003-350-28 AEL-5004-350-37.5 AEL-5006-350-56 AEL-5008-350-75 AEL-5012-350-112.5 AEL-5015-350-112.5 AEL-5019-350-112.5 AEL-5002-425-18.75 AEL-5003-425-28 AEL-5006-425-56 AEL-5008-425-75 AEL-5008-425-75 AEL-5012-425-112.5 AEL-5015-425-112.5 AEL-5019-425-112.5 AEL-5023-425-112.5 AEL-5023-425-112.5 AEL-5003-480-18.75	350V/18.75A/1875W 350V/28A/2800W 350V/37.5A/3750W 350V/56A/5600W 350V/75A/7500W 350V/112.5A/11250W 350V/112.5A/1500W 350V/112.5A/18750W 350V/112.5A/2500W 425V/18.75A/1875W 425V/28A/2800W 425V/37.5A/3750W 425V/35A/7500W 425V/112.5A/1250W 425V/112.5A/18750W 425V/112.5A/18750W 425V/112.5A/22500W 480V/18.75A/2800W	AC & DC AC & DC	Electronic Load Electronic Load	
AEL-5004-480-28 ACCESSORIES : HD-	480V/28A/3750W AEL-501 Power rating: 15->	.5-425- 15kw Max 425- ire	Maximum output cu 112.5-> 112.5A mum output voltage: > 425V	rrent:
			CESSORIES	
	d U-shaped handle(fixed to Rack Accessories(for AEL		GPIB Cable, Dou GPIB Cable, Dou et) (for AEL-5006/5	2.0, A-B Type, 1200mm ble Shielded, 2000mm ble Shielded, 600mm 008/5012/5015)

Note: * Regarding the product delivery date, please contact your regional sales representative.

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