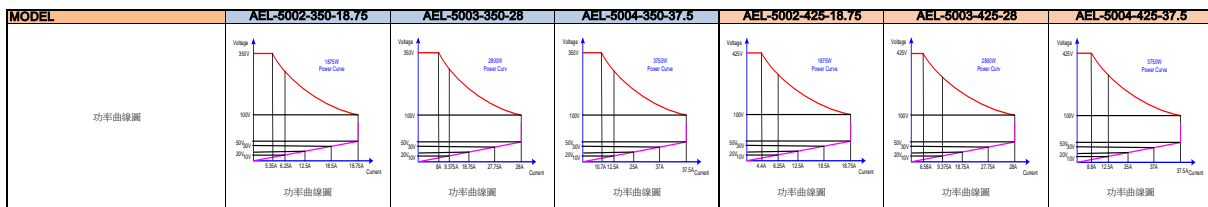




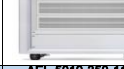



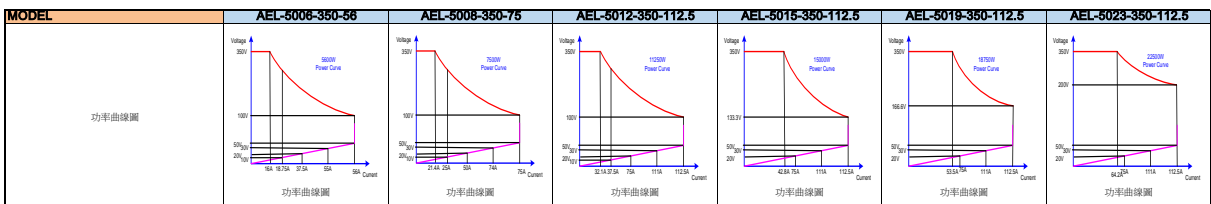
<b>MODEL</b>	<b>AEL-5002-350-18.75</b>	<b>AEL-5003-350-28</b>	<b>AEL-5004-350-37.5</b>	<b>AEL-5002-425-18.75</b>	<b>AEL-5003-425-28</b>	<b>AEL-5004-425-37.5</b>
Power (W)	1875 W	2800W	3750 W	1875 W	2800W	3750 W
Current(Ampere)	18.75 Arms / 56.25Apeak	28 Arms / 84Apeak	37.5 Arms / 112.5Apeak	18.75 Arms / 56.25Apeak	28 Arms / 84Apeak	37.5 Arms / 112.5Apeak
Voltage(Volt)	50~350Vrms / 600Vdc	50~350Vrms / 600Vdc	50~350Vrms / 600Vdc	50~425Vrms / 600Vdc	50~425Vrms / 600Vdc	50~425Vrms / 600Vdc
FREQUENCY Range	DC,40~440Hz(CC,CP Mode), DC~440Hz(LIN,CR,CV Mode)			DC,40~440Hz(CC,CP Mode), DC~440Hz(LIN,CR,CV Mode)		
<b>PROTECTIONS</b>	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	= 19.887 Arms or Programmable	= 29.4 Arms or Programmable	= 39.375 Arms, or Programmable	= 19.887 Arms or Programmable	= 29.4 Arms or Programmable	= 39.375 Arms, or Programmable
Over Voltage Protection	= 367.5 Vrms / 525Vdc	= 367.5 Vrms / 525Vdc	= 367.5 Vrms / 525Vdc	= 446.25 Vrms/630Vdc	= 446.25 Vrms/630Vdc	= 446.25 Vrms/630Vdc
Over Temp. Protection	Yes			Yes		
<b>OPERATION MODE</b>	<b>Constant Current Mode for Sine-Wave</b>			<b>Constant Current Mode for Sine-Wave</b>		
Range	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	± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz			± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz		
<b>Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave</b>	Range 0~18.75A			Range 0~18.75A		
Resolution	0.3125mA/16bits	0.5mA/16bits	0.625mA/16bits	0.3125mA/16bits	0.5mA/16bits	0.625mA/16bits
Accuracy	± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz			± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz		
<b>Constant Resistance Mode</b>	Range 3.2 ohm ~ 64K ohm			Range 3.2 ohm ~ 64K ohm		
Resolution*1	0.0052083mS/16bits	0.0083333mS/16bits	0.010416mS/16bits	0.0052083mS/16bits	0.0083333mS/16bits	0.010416mS/16bits
Accuracy	±0.2% of ( setting + range ) @ 50/60Hz			±0.2% of ( setting + range ) @ 50/60Hz		
<b>Constant Voltage Mode</b>	Range 50~350Vrms / 500Vdc			Range 50~425Vrms / 600Vdc		
Resolution	0.01V	0.01V	0.01V	0.01V	0.01V	0.01V
Accuracy	±(0.1% of setting + 0.1% of range)			±(0.1% of setting + 0.1% of range)		
<b>Constant Power Mode</b>	Range 1875W			Range 1875W		
Resolution	0.1W	0.1W	0.1W	0.1W	0.1W	0.1W
Accuracy	±(0.1% of setting + 0.1% of range)			±(0.1% of setting + 0.1% of range)		
<b>CREST FACTOR (CC &amp; CP MODE ONLY)</b>	Range √2~5			Range √2~5		
Resolution	0.1	0.1	0.1	0.1	0.1	0.1
Accuracy	(0.5% / Irms) + 1%F.S.			(0.5% / Irms) + 1%F.S.		
<b>POWER FACTOR (CC &amp; CP MODE ONLY)</b>	Range 0~1 Lag or Lead			Range 0~1 Lag or Lead		
Resolution	0.01	0.01	0.01	0.01	0.01	0.01
Accuracy	1%F.S.			1%F.S.		
<b>TEST MODE</b>	UPS Efficient Measurement			UPS Efficient Measurement		
Operating Frequency	Non-Linear Mode Auto: 40~440Hz			Non-Linear Mode Auto: 40~440Hz		
Current Range	0~18.75A	0~28A	0~37.5A	0~18.75A	0~28A	0~37.5A
PF Range	0~1			0~1		
<b>MEASURING EFFICIENCY FOR PV</b>	Resistive + Non-Linear Mode			Resistive + Non-Linear Mode		
Operating Frequency	Auto: 40~440Hz			Auto: 40~440Hz		
Current Range	0~18.75A	0~28A	0~37.5A	0~18.75A	0~28A	0~37.5A
Resistive Range	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
<b>UPS Back-Up function(CC,LIN,CR,CP)</b>	UVP (VTH) 50~350Vrms / 500Vdc			50~425Vrms / 600Vdc		
UPS Back-Up Time	1~99999 Sec. (>27H)			1~99999 Sec. (>27H)		
<b>Battery Discharge function(CC,LIN,CR,CP)</b>	UVP (VTH) 50~350Vrms / 500Vdc			50~425Vrms / 600Vdc		
Battery Discharge Time	1~99999 Sec. (>27H)			1~99999 Sec. (>27H)		
<b>UPS Transfer Time</b>	Current Range 0~18.75A			0~18.75A		
UVP (VTH)	2.5V			2.5V		
Time range	0.15mS~999.99mS			0.15mS~999.99mS		
<b>Fuse Test mode</b>	Max. Current Turbo OFF 18.75Arms			18.75Arms		
	Turbo ON 37.5Arms (x2) *3			56.0Arms (x2) *3		
Trip & Non-Trip Time	Turbo OFF 0.1~9999.9sec.			0.1~9999.9sec.		
	Turbo ON 0.1~1.0sec.			0.1~1.0sec.		
Meas. Accuracy	±0.003 Sec.			±0.003 Sec.		
Repeat Cycle	0~255			0~255		
<b>Short/OPP/OCF Test Function</b>	Short Time Turbo OFF 0.1S ~ 10Sec. Or Cont.			0.1S ~ 10Sec. Or Cont.		
	Turbo ON 0.1S ~ 1Sec			0.1S ~ 1Sec		
OPP/OCF Step Time	Turbo OFF 100ms			100ms		
	Turbo ON 100ms. up to 10 Steps			100ms. up to 10 Steps		
OCP Istop	Turbo OFF 18.75Arms			28.0Arms		
	Turbo ON 37.5Arms			56.0Arms		
OPP Pstop	Turbo OFF 1875W			2800W		
	Turbo ON 3750W			5600W		
<b>Programmable Inrush current simulation: Istart - Istop / Teep</b>	Istart, Inrush Start Current 0~37.5A			0~56A		
Inrush Step time	0.1mS~100mS			0.1mS~100mS		
Istop, Inrush stop current	0~18.75A			0~28A		
<b>Programmable Surge current simulation: S1/T1 - S2/T2 - S3/T3</b>	S1 and S2 Current 0~37.5A			0~56A		
T1 and T2 Time	0.01S~0.5Sec.			0.01S~0.5Sec.		
S3 Current	0~18.75A			0~28A		
T3 Time	0.01S ~ 9.99Sec. Or Cont.			0.01S ~ 9.99Sec. Or Cont.		
<b>MEASUREMENTS</b>	<b>VOLTAGE READBACK V METER</b>			<b>VOLTAGE READBACK V METER</b>		
Range	500V			600V		
Resolution	0.01V			0.01V		
Accuracy	±0.05% of ( reading + range )			±0.05% of ( reading + range )		
Parameter	Vrms,V Max/Min,+/-Vpk			Vrms,V Max/Min,+/-Vpk		
<b>CURRENT READBACK A METER</b>	Range 9.375Arms/18.75Arms			14Arms/28Arms		
Resolution	0.2mA/0.4mA			0.4mA/0.8mA		
Accuracy	±0.05% of ( reading + range ) @ 50/60Hz			±0.05% of ( reading + range ) @ 50/60Hz		
Parameter	Irms,I Max/Min,+/-Ipk			Irms,I Max/Min,+/-Ipk		
<b>WATT READBACK W METER</b>	Range 1875W			2800W		
Resolution	0.03125W			0.0625W		
Accuracy	±0.1% of ( reading + range )			±0.1% of ( reading + range )		
VIA METER	Vrms>Arms Correspond To Vrms and Arms			Vrms>Arms Correspond To Vrms and Arms		
<b>Power Factor METER</b>	Range +/- 0.000~1.000			+/- 0.000~1.000		
Accuracy	±(0.002±(0.001/PF)*F)			±(0.002±(0.001/PF)*F)		
<b>Frequency METER(V)</b>	Range DC,40~440Hz			DC,40~440Hz		
Accuracy	0.1%			0.1%		
<b>Other Parameter METER</b>	VA, VAR, CF, I, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, VTHD			VA, VAR, CF, I, Ipeak, Imax, Imin, Vmax, Vmin, IHD, VHD, ITHD, VTHD		
<b>OTHERS</b>	Start up loading Yes, Power on loading during Inverter / UPS start up			Yes, Power on loading during Inverter / UPS start up		
Load ON / OFF Angle	0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading			0 ~ 359 degree can be programmed for the angle of load ON and load OFF loading		
Half cycle and SCR/TRIAC loading	Positive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed			Positive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed		
Master/Slave( 3 phase or Parallel)	Yes, 1 master and upto 7 slave units			Yes, 1 master and upto 7 slave units		
External programming input(OPTION)	F.S / 10Vdc, Resolution 0.1V			F.S / 10Vdc, Resolution 0.1V		
External SYNC input	TTL			TTL		
Vmonitor ( Isolated )	±56.25Apk / ±10Vpk			±84Apk / ±10Vpk		
Interface (OPTION)	GPIO ; RS-232 ; LAN ; USB			GPIO ; RS-232 ; LAN ; USB		
MAX. Power consumption	150VA			150VA		
Operation Temperature *2	0 ~ 40 °C			0 ~ 40 °C		
Current of input impedance(mA) @ 50/60Hz	~V/0.3 ; ~V/2.2			~V/0.45 ; ~V/3.3		
Dimension( H x W x D )	177 x 440 x 558 mm			177 x 440 x 558mm		
Weight	21.5Kg			27.5Kg		

\*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/OCF/OPP test function  
 \* All specifications apply for 50/60Hz.  
 \* All specifications subject to change without notice.



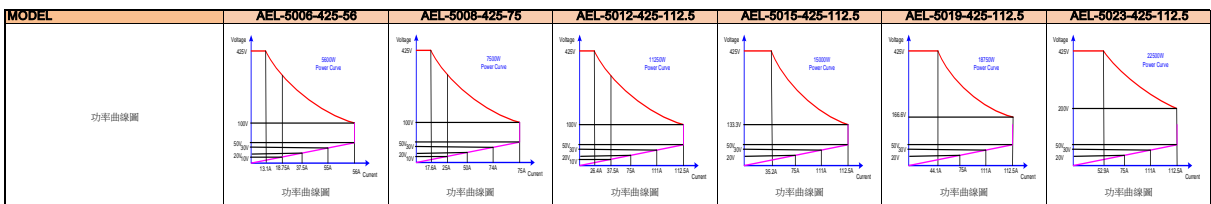
						
<b>MODEL</b>	<b>AEL-5008-350-56</b>	<b>AEL-5008-350-75</b>	<b>AEL-5012-350-112.5</b>	<b>AEL-5015-350-112.5</b>	<b>AEL-5019-350-112.5</b>	<b>AEL-5023-350-112.5</b>
Power (W)	5600 W	7500 W	11250 W	15000 W	18750 W	22500 W
Current(Ampere)	56 Arms / 168Apeak	75 Arms / 225Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak
Voltage(Volt)	50-350Vrms / 500Vdc					
FREQUENCY Range	DC,40-440Hz(CC,CP Mode) , DC-440Hz(LIN,CR,CV Mode)					
<b>PROTECTIONS</b>	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 Voltage Protection = 367.5 Vrms/525Vdc Over Temp. Protection Yes					
<b>OPERATION MODE</b>	<b>Constant Current Mode for Sine-Wave</b>					
Range	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	± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz					
<b>Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave</b>						
Range	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	± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz					
<b>Constant Resistance Mode</b>						
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	0.016666mS/16bits	0.020832mS/16bits	0.031248mS/16bits	0.031248mS/16bits	0.031248mS/16bits	0.031248mS/16bits
Accuracy	±0.2% of ( setting + range ) @ 50/60Hz					
<b>Constant Voltage Mode</b>						
Range	50-350Vrms / 500Vdc					
Resolution	0.1V					
Accuracy	±0.2% of ( setting + range ) @ 50/60Hz					
<b>Constant Power Mode</b>						
Range	5600W	7500W	11250W	15000 W	18750W	22500W
Resolution	0.1W	0.1W	1W	1W	1W	1W
Accuracy	±0.2% of ( setting + range ) @ 50/60Hz					
<b>CREST FACTOR (CC &amp; CP MODE ONLY)</b>						
Range	√2-5					
Resolution	0.1					
Accuracy	(0.5% / Irms) + 1%F.S.					
<b>POWER FACTOR (CC &amp; CP MODE ONLY)</b>						
Range	0-1 Lag or Lead					
Resolution	0.01					
Accuracy	1%F.S.					
<b>TEST MODE</b>						
<b>UPS Efficient Measurement</b>						
Operating Frequency	Non-Linear Mode Auto : 40-440Hz					
Current Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
PF Range	1					
<b>MEASURING EFFICIENCY FOR PV</b>						
Operating Frequency	Resistive + Non-Linear Mode Auto : 40-440Hz					
Current Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
Resistive 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
<b>UPS Back-Up function(CC,LIN,CR,CP)</b>						
UVP (VTH)	50-350Vrms / 500Vdc					
UPS Back-Up Time	1-99999 Sec. (>27H)					
<b>Battery Discharge function(CC,LIN,CR,CP)</b>						
UVP (VTH)	50-350Vrms / 500Vdc					
Battery Discharge Time	1-99999 Sec. (>27H)					
<b>UPS Transfer Time</b>						
Current Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
UVP (VTH)	2.5V					
Time range	0.15mS-999.99mS					
<b>Fuse Test mode</b>						
Max. Current	Turbo OFF 75Arms	Turbo ON 150Arms (x2) <sup>-1</sup>	Turbo OFF 75Arms	Turbo ON 150Arms (x2) <sup>-1</sup>	Turbo OFF 112.5Arms	Turbo ON 225Arms (x2) <sup>-1</sup>
Trip & Non-Trip Time	0.1-9999.9sec. 0.1-1.0sec.					
Meas. Accuracy	±0.003 Sec.					
Repeat Cycle	0-255					
<b>Short/OPP/OCF Test Function</b>						
Short Time	Turbo OFF Turbo ON	0.1S - 10Sec. Or Cont. 0.1S - 1Sec				
OPP/OCF Step Time	Turbo OFF Turbo ON	100ms 100ms, up to 10 Steps				
OCF Istop	Turbo OFF Turbo ON	56Arms 112Arms	75Arms 150Arms	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
<b>Programmable Inrush current simulation: Istart - Istop / Teop</b>						
Istart, Inrush Start Current	0-112A	0-150A	0-225A	0-225A	0-225A	0-225A
Inrush Step time	0.1mS-100mS					
Istop, Inrush stop current	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
<b>Programmable Surge current simulation: S1/T1 - S2/T2 - S3/T3</b>						
S1 and S2 Current	0-112A	0-150A	0-225A	0-225A	0-225A	0-225A
T1 and T2 Time	0.01S-0.5Sec.					
S3 Current	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
T3 Time	0.01S - 9.99Sec. Or Cont.					
<b>MEASUREMENTS</b>						
<b>VOLTAGE READBACK A METER</b>						
Range	500V					
Resolution	0.01V					
Accuracy	±0.05% of ( reading + range )					
Parameter	Vrms,V Max/Min,+/-Vpk					
<b>CURRENT READBACK A METER</b>						
Range	28Arms/56Arms	37.5Arms/75Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms
Resolution	0.8mA/1.2mA	0.8mA/1.6mA	1.2mA/2.4mA	1.2mA/2.4mA	1.2mA/2.4mA	1.2mA/2.4mA
Accuracy	±0.1% of ( reading + range ) @ 50/60Hz					
Parameter	Irms,I Max/Min,+/-Ipk					
<b>WATT READBACK W METER</b>						
Range	5600W	7500W	11250W	15000W	18750W	22500W
Resolution	0.1W	0.125W	0.1875W	0.25W	0.3125W	0.375W
Accuracy	±0.2% of ( reading + range ) @ 50/60Hz , ±0.4% of ( reading + range ) Vrms*Arms Correspond To Vrms and Arms					
<b>VA METER</b>						
<b>Power Factor METER</b>						
Range	+/- 0.000-1.000					
Accuracy	±(0.002±(0.001/PF)*F)					
<b>FREQUENCY METER(V)</b>						
Range	DC,40-440Hz					
Accuracy	0.1%					
<b>Other Parameter METER</b>	VA,VAR,CF,I,Ippeak,Imax,Imin,Vmax,Vmin,IHD,VHD,ITHD,VTHD					
<b>OTHERS</b>						
Start up loading	Yes, Power on loading during Inverter / UPS start up					
Load ON / OFF Angle	0 - 359 degree can be programmed for the angle of load ON and load OFF loading					
Half cycle and SCR/TRIAC loading	Positive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed					
Master/Slave( 3 phase or Parallel application)	Yes, 1 master and upto 7 slave unit					
External programming input(OPTION)	F.S / 10Vdc, Resolution 0.1V					
External SYNC input	TTL					
Vmonitor ( Isolated )	±500V / ±10V					
Imonitor ( Isolated )	±168Apk / ±10Vpk	±225Apk / ±10Vpk	±337.5Apk / ±10Vpk	±337.5Apk / ±10Vpk	±337.5Apk / ±10Vpk	±337.5Apk / ±10Vpk
Interface (OPTION)	GPIO ; RS-232 ; LAN ; USB					
MAX. Power consumption	270VA	270VA	390VA	510VA	630VA	750VA
Operation Temperature *2	0 - 40 °C					
Current of input impedance(mA) @ 50/60Hz	-V*0.8 ; -V*6.8	-V*1.2 ; -V*8.8	-V*1.8 ; -V*13.2	-V*2.4 ; -V*17.8	-V*3.0 ; -V*22	-V*3.6 ; -V*26.4
Dimension( H x W x D )	458 x 480 x 590 mm	458 x 480 x 590 mm	636 x 480 x 590 mm	814 x 480 x 590 mm	1283 x 600 x 600 mm	1283 x 600 x 600 mm
Weight	58 kg	70 kg	105kg	140kg	260kg	295kg



\*1 ms (millisec) 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/OCF/OPP test function  
 \* All specifications apply for 50/60Hz.  
 \* All specifications subject to change without notice.



MODEL	AEL-5008-425-56	AEL-5008-425-75	AEL-5012-425-112.5	AEL-5015-425-112.5	AEL-5019-425-112.5	AEL-5023-425-112.5
Power (W)	5600 W	7500 W	11250 W	15000 W	18750 W	22500 W
Current(Ampere)	56 Arms / 168Apeak	75 Arms / 225Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak	112.5 Arms / 337.5Apeak
Voltage(Volt)	50-425Vrms / 600Vdc					
FREQUENCY Range	DC,40-440Hz(CC,CP Mode) , DC-440Hz(LIN,CR,CV Mode)					
<b>PROTECTIONS</b>						
Over Power Protection	= 5880Wrms or Programmable	= 7875Wrms or Programmable	= 11812.5Wrms or Programmable	= 15750Wrms 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 Voltage Protection	= 446.25 Vrms/630Vdc					
Over Temp. Protection	Yes					
<b>OPERATION MODE</b>						
<b>Constant Current Mode for Sine-Wave</b>						
Range	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	± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz					
<b>Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave</b>						
Range	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	± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz					
<b>Constant Resistance Mode</b>						
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	0.016666mS/16bits	0.020832mS/16bits	0.031248mS/16bits	0.031248mS/16bits	0.031248mS/16bits	0.031248mS/16bits
Accuracy	±0.2% of ( setting + range ) @ 50/60Hz					
<b>Constant Voltage Mode</b>						
Range	50-425Vrms / 600Vdc					
Resolution	0.1V					
Accuracy	±0.2% of ( setting + range ) @ 50/60Hz					
<b>Constant Power Mode</b>						
Range	5600W	7500W	11250W	15000 W	18750W	22500W
Resolution	0.1W	0.1W	1W	1W	1W	1W
Accuracy	±0.2% of ( setting + range ) @ 50/60Hz					
<b>CREST FACTOR (CC &amp; CP MODE ONLY)</b>						
Range	√2-5					
Resolution	0.1					
Accuracy	(0.5% / Irms) + 1%F.S.					
<b>POWER FACTOR (CC &amp; CP MODE ONLY)</b>						
Range	0-1 Lag or Lead					
Resolution	0.01					
Accuracy	1%F.S.					
<b>TEST MODE</b>						
<b>UPS Efficient Measurement</b>						
Operating Frequency	Non-Linear Mode Auto : 40-440Hz					
Current Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
PF Range	0-1					
<b>MEASURING EFFICIENCY FOR PV</b>						
Operating Frequency	Resistive + Non-Linear Mode Auto : 40-440Hz					
Current Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
Resistive 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
<b>UPS Back-Up function(CC,LIN,CR,CP)</b>						
UVP (VTH)	50-425Vrms / 600Vdc					
UPS Back-Up Time	1-99999 Sec. (>27H)					
<b>Battery Discharge function(CC,LIN,CR,CP)</b>						
UVP (VTH)	50-425Vrms / 600Vdc					
Battery Discharge Time	1-99999 Sec. (>27H)					
<b>UPS Transfer Time</b>						
Current Range	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
UVP (VTH)	2.5V					
Time range	0.15mS-999.99mS					
<b>Fuse Test mode</b>						
Max. Current	Turbo OFF 75Arms 150Arms (x2) <sup>-1</sup>	Turbo ON 75Arms 150Arms (x2) <sup>-1</sup>	Turbo OFF 112.5Arms 225Arms (x2) <sup>-1</sup>	Turbo ON 112.5Arms 225Arms (x2) <sup>-1</sup>	Turbo OFF 112.5Arms 225Arms (x2) <sup>-1</sup>	Turbo ON 112.5Arms 225Arms (x2) <sup>-1</sup>
Trip & Non-Trip Time	Turbo OFF 0.1-9999.9sec. Turbo ON 0.1-1.0sec.					
Meas. Accuracy	±0.003 Sec.					
Repeat Cycle	0-255					
<b>Short/OPP/OCF Test Function</b>						
Short Time	Turbo OFF Turbo ON	0.1S - 10Sec. Or Cont. 0.1S - 1Sec				
OPP/OCF Step Time	Turbo OFF Turbo ON	100ms 100ms, up to 10 Steps				
OCF Istop	Turbo OFF Turbo ON	56Arms 112Arms	75Arms 150Arms	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
<b>Programmable Inrush current simulation: Istart - Istop / Teop</b>						
Istart, Inrush Start Current	0-112A	0-150A	0-225A	0-225A	0-225A	0-225A
Inrush Step time	0.1mS-100mS					
Istop, Inrush stop current	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
<b>Programmable Surge current simulation: S1/T1 - S2/T2 - S3/T3</b>						
S1 and S2 Current	0-112A	0-150A	0-225A	0-225A	0-225A	0-225A
T1 and T2 Time	0.01S-0.5Sec.					
S3 Current	0-56A	0-75A	0-112.5A	0-112.5A	0-112.5A	0-112.5A
T3 Time	0.01S - 9.99Sec. Or Cont.					
<b>MEASUREMENTS</b>						
<b>VOLTAGE READBACK A METER</b>						
Range	600V					
Resolution	0.01V					
Accuracy	±0.05% of ( reading + range )					
Parameter	Vrms,V Max/Min,+/-Vpk					
<b>CURRENT READBACK A METER</b>						
Range	28Arms/56Arms	37.5Arms/75Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms	56.25Arms/112.5Arms
Resolution	0.8mA/1.2mA	0.8mA/1.6mA	1.2mA/2.4mA	1.2mA/2.4mA	1.2mA/2.4mA	1.2mA/2.4mA
Accuracy	±0.1% of ( reading + range ) @ 50/60Hz					
Parameter	Irms,I Max/Min,+/-Ipk					
<b>WATT READBACK W METER</b>						
Range	5600W	7500W	11250W	15000W	18750W	22500W
Resolution	0.1W	0.125W	0.1875W	0.25W	0.3125W	0.375W
Accuracy	±0.2% of ( reading + range ) @ 50/60Hz , ±0.4% of ( reading + range ) Vrms*Arms Correspond To Vrms and Arms					
<b>VA METER</b>						
<b>Power Factor METER</b>						
Range	+/- 0.000-1.000					
Accuracy	±(0.002±(0.001/PF)*F)					
<b>FREQUENCY METER(V)</b>						
Range	DC,40-440Hz					
Accuracy	0.1%					
<b>Other Parameter METER</b>	VA,VAR,CF,I,Ippeak,Imax,Imin,Vmax,Vmin,IHD,VHD,ITHD,VTHD					
<b>OTHERS</b>						
Start up loading	Yes , Power on loading during Inverter / UPS start up					
Load ON / OFF Angle	0 - 359 degree can be programmed for the angle of load ON and load OFF loading					
Half cycle and SCR/TRIAC loading	Positive or Negative half cycle, 90° Trailing edge or Leading edge current waveform can be programmed					
Master/Slave( 3 phase or Parallel application)	Yes, 1 master and upto 7 slave unit					
External programming input(OPTION)	F.S / 10Vdc, Resolution 0.1V					
External SYNC input	TTL					
Vmonitor ( Isolated )	±800V / ±10V					
Imonitor ( Isolated )	±168Apk / ±10Vpk ; ±225Apk / ±10Vpk ; ±337.5Apk / ±10Vpk ; ±337.5Apk / ±10Vpk ; ±337.5Apk / ±10Vpk ; ±337.5Apk / ±10Vpk					
Interface (OPTION)	GPIO ; RS-232 ; LAN ; USB					
MAX. Power consumption	270VA	270VA	390VA	510VA	630VA	750VA
Operation Temperature *2	0 - 40 °C					
Current of input impedance(mA) @ 50/60Hz	-V*0.8 ; -V*6.8	-V*1.2 ; -V*6.8	-V*1.8 ; -V*13.2	-V*2.4 ; -V*17.8	-V*3.0 ; -V*22	-V*3.6 ; -V*26.4
Dimension( H x W x D )	458 x 480 x 590 mm	458 x 480 x 590 mm	636 x 480 x 580 mm	814 x 480 x 580 mm	1283 x 600 x 600 mm	1283 x 600 x 600 mm
Weight	58 kg	70 kg	105kg	140kg	260kg	295kg

\*1 ms (millisec) 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/OCF/OPP test function  
\* All specifications apply for 50/60Hz.  
\* All specifications subject to change without notice.



		
<b>MODEL</b>	<b>AEL-5003-480-18.75</b>	<b>AEL-5004-480-28</b>
Power (W)	2800W	3750 W
Current(Ampere)	18.75 Arms / 56.25Apeak	28 Arms / 84Apeak
Voltage(Volt)	50~480Vrms / 700Vdc	
FREQUENCY Range	DC,40~70Hz(CC,CP Mode), DC~70Hz(LIN,CR,CV Mode)	
<b>PROTECTIONS</b>		
Over Power Protection	=2940Wrms or Programmable	=3937.5Wrms or Programmable
Over Current Protection	= 19.887 Arms or Programmable	= 29.4 Arms or Programmable
Over Voltage Protection	= 504Vrms / 735Vdc	
Over Temp. Protection	Yes	
<b>OPERATION MODE</b>		
<b>Constant Current Mode for Sine-Wave</b>		
Range	0~18.75A	0~28A
Resolution	0.3125mA/16bits	0.5mA/16bits
Accuracy	± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz	
<b>Linear Constant Current Mode for Sine-Wave, Square-Wave or Quasi-Square Wave, PWM Wave</b>		
Range	0~18.75A	0~28A
Resolution	0.3125mA/16bits	0.5mA/16bits
Accuracy	± ( 0.1% of setting + 0.2% of range ) @ 50/60Hz	
<b>Constant Resistance Mode</b>		
Range	4 ohm ~ 80K ohm	2.5 ohm ~ 50K ohm
Resolution*1	0.004166mS/16bits	0.006666mS/16bits
Accuracy	±0.2% of ( setting + range ) @ 50/60Hz	
<b>Constant Voltage Mode</b>		
Range	50~480Vrms / 700Vdc	
Resolution	0.0125V	
Accuracy	±(0.1% of setting + 0.1% of range)	
<b>Constant Power Mode</b>		
Range	2800W	3750W
Resolution	0.1W	0.1W
Accuracy	±(0.1% of setting + 0.1% of range)	
<b>CREST FACTOR (CC &amp; CP MODE ONLY)</b>		
Range	√2~5	
Resolution	0.1	
Accuracy	(0.5% / Irms) + 1%F.S.	
<b>POWER FACTOR (CC &amp; CP MODE ONLY)</b>		
Range	0~1 Lag or Lead	
Resolution	0.01	
Accuracy	1%F.S.	
<b>TEST MODE</b>		
<b>UPS Efficient Measurement</b>	Non-Linear Mode	
Operating Frequency	Auto ; 40~70Hz	
Current Range	0~18.75A	0~28A
PF Range	0~1	
<b>MEASURING EFFICIENCY FOR PV</b>	Resistive + Non-Linear Mode	
Operating Frequency	Auto ; 40~70Hz	
Current Range	0~18.75A	0~28A
Resistive Range	4 ohm ~ 80K ohm	2.5 ohm ~ 50K ohm
<b>UPS Back-Up function(CC,LIN,CR,CP)</b>		
UVP (VTH)	50~480Vrms / 700Vdc	
UPS Back-Up Time	1~99999 Sec. (>27H)	
<b>Battery Discharge function(CC,LIN,CR,CP)</b>		
UVP (VTH)	50~480Vrms / 700Vdc	
Battery Discharge Time	1~99999 Sec. (>27H)	
<b>UPS Transfer Time</b>		
Current Range	0~18.75A	0~28A
UVP (VTH)	2.5V	
Time range	0.15mS~999.99mS	
<b>Fuse Test mode</b>		
Max. Current	Turbo OFF 18.75Arms Turbo ON 37.5Arms (x2) *3	28.0Arms 56.0Arms (x2) *3
Trip & Non-Trip Time	Turbo OFF 0.1~9999.9sec. Turbo ON 0.1~1.0sec.	
Meas. Accuracy	±0.003 Sec.	
Repeat Cycle	0~255	
<b>Short/OPP/OCF Test Function</b>		
Short Time	Turbo OFF 0.1S ~ 10Sec. Or Cont. Turbo ON 0.1S ~ 1Sec	
OPP/OCF Step Time	Turbo OFF 100ms Turbo ON 100ms, up to 10 Steps	
OCF Istop	Turbo OFF 18.75Arms Turbo ON 37.5Arms	28.0Arms 56.0Arms
OPP Pstop	Turbo OFF 2800W Turbo ON 5600W	3750W 7500W
<b>Programmable Inrush current simulation: Istart - Istop / Teep</b>		
Istart, Inrush Start Current	0~37.5A	0~56A
Inrush Step time	0~18.75A	0~28A
Istop, Inrush stop current	0~37.5A	0~56A
<b>Programmable Surge current simulation: S1/T1 - S2/T2 - S3/T3</b>		
S1 and S2 Current	0~37.5A	0~56A
T1 and T2 Time		
S3 Current	0~18.75A	0~28A
T3 Time		
<b>MEASUREMENTS</b>		
<b>VOLTAGE READBACK V METER</b>		
Range	700V	
Resolution	0.0125V	
Accuracy	±0.05% of (reading + range)	
Parameter	Vrms,V Max/Min,+/-Vpk	
<b>CURRENT READBACK A METER</b>		
Range	9.375Arms/18.75Arms	14Arms/28Arms
Resolution	0.2mA/0.4mA	0.3mA/0.6mA
Accuracy	±0.05% of ( reading + range ) @ 50/60Hz	
Parameter	Irms,I Max/Min,+/-Ipk	
<b>WATT READBACK W METER</b>		
Range	2800W	3750W
Resolution	0.05W	0.0625W
Accuracy	±0.1% of ( reading + range )	
VIA METER	Vrms*Arms Correspond To Vrms and Arms	
<b>Power Factor METER</b>		
Range	+/- 0.000~1.000	
Accuracy	±(0.002±(0.001/PF)*F)	
<b>Frequency METER(V)</b>		
Range	DC,40~70Hz	
Accuracy	0.1%	
<b>Other Parameter METER</b>		
	VA VAR CF I Ipeak I_max I_min Vmax V_min IHD_VHD ITHD_VTHD	
<b>OTHERS</b>		
Start up loading	Yes , Power on loading during Inverter / UPS start up	
Load ON / OFF Angle	0 ~ 359 degree can be programmed for the angle of load ON and load	
Half cycle and SCR/TRIAC loading	Positive or Negative half cycle, 90° Trailing edge or Leading edge	
Master/Slave( 3 phase or Parallel application)	Yes, 1 master and upto 7 slave units	
External programming input(OPTION)	F,S / 10Vdc, Resolution 0.1V	
External SYNC input	TTL	
Vmonitor ( Isolated )	±700V / ±10V	
Imonitor ( Isolated )	±56.25Apk / ±10Vpk ±84Apk / ±10Vpk	
Interface (OPTION)	GPIB ; RS-232 ; LAN ; USB	
MAX. Power consumption	150VA	
Operation Temperature *2	0 ~ 40 °C	
Current of input impedance(mA) @ 50/60Hz	~V/D.3 ; ~V/D.2.2 ~V/D.4 ; ~V/D.2.95	
Dimension( H x W x D )	177 x 440 x 558 mm	177 x 440 x 558 mm
Weight	27.5Kg	33.5Kg

\*1 ms (millisec) 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/OCF/OPP test function  
 \* All specifications apply for 50/60Hz.  
 \* All specifications subject to change without notice.

