

ADG-P & ADG-L

Preen®

Programmable DC Power Supply Preliminary

up to 2000V

Low Ripple& Tight Regulation

NEW

- 5 & 7-inch Intuitive Touch Screen HMI.
- Compact & High Power Density.

Output Current up to 2500A

Multiple Simulation Functions.

Efficiency up to >90%.

High Output Power

16 Different Output Voltages & 52 Models.

Fast Transient Response

AC+DC Power Solutions

CE

RoHS

AC POWER CORP. www.PreenPower.com

ADG-L series NEW

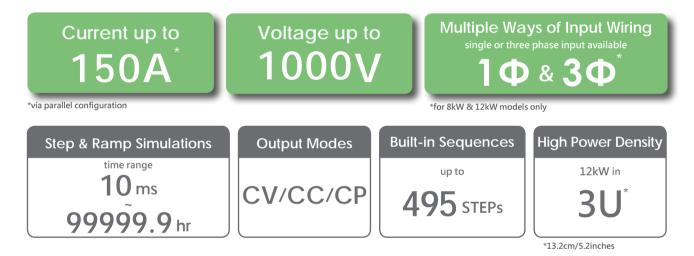


4kW/8kW/12kW

Programmable DC Power Supply

Preen's new ADG-L series is a programmable DC power supply with high power density, low noise, and tight regulation. The combination of DSP and PWM technologies has enabled significant advances in stability and measurements. The ADG-L series includes fourteen models with 4kW, 8kW and 12kW maximum output powers and several Auto Range models to provide a higher output current at lower output voltage. With CV/CC/CP modes and its high voltage and high power features, the ADG-L series is an ideal DC power for applications on photovoltaic (PV), electric vehicle (EV), battery charge simulation, fuse, and contactors. With a full 12kW in a 3U package it is designed for simulations in product development and automatic test system & integration. Parallel configuration is available to achieve higher output level.

The ADG-L series is operated from the 5"intuitive touch screen or the rotary knob to quickly access measurements, setting parameters, and configurations. The DC power supply can also be controlled via RS-232, RS-485 and Analog standard remote interfaces or through optional Ethernet, USB, or GPIB interfaces. The built-in simulation function allows devices to be tested to voltage dropouts, spikes and other repetitive testing for voltage and current. This makes the ADG-L series ideal for various applications in renewable energy, EV, aerospace, DC/DC converter and electronic product markets.



ADG-L PANEL DESCRIPTION

- 1. Power Switch
- 2. Touch Screen
- 3. Rotary Knob
- 4. Output / Reset Button
- 5. DC negative output termi-nal
- 6. DC positive output terminal
- 7. Remote Sense Connector
- 8. USB interface (for firmware update)
- 9. CANBUS terminal resister switch
- 10. Serial and parallel switch

- 11. RS-485 terminal resister switch
- 12. Accessory power outlet
- 13. RS232/RS485 Interface (standard)
- 14. RS232/RS485 Interface switch
- 15. Analog interface
- 16. Optional communication interface : USB/Ethernet/GPIB
- 17. Input terminals

Front Panel Overview

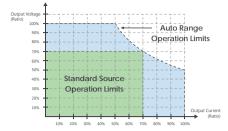


Rear Panel Overview

5 6 7 8 9 1011121314 15 16 17

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Auto Range Models



Comparing to conventional DC power supplies that provide the same rated current at all output voltage, the ADG-L's auto range models offer a wide operation region. It can generate a higher output current at lower output voltage, or a higher output voltage at lower output current. This feature is an ideal solution for both high current/low voltage and low voltage/high current DUT, and makes one unit to cover a wide range of applications to further save cost and space.

Intuitive Touch Screen and Rotary Knob





The ADG-L series employs 5"touch screen and rotary knob to provide intuitive and easyto-use control and display. Users can quickly access output settings, measurements, sequences and system configurations from the touch screen. Sophisticated sequences can not only be set from the PC but also easily from the touch screen.

High Power Density: 12kW in 3U



Employing PWM technology and DSP-based control, Preen's ADG-L series DC power supply has 12kW available only in 3U package, and with parallel configuration, 24kW only has 6U height. The rack-mount enclosure is designed to accommodate a wide range of applications, especially for automatic test systems and integrations.

Free Control Software and Various Communication Interfaces





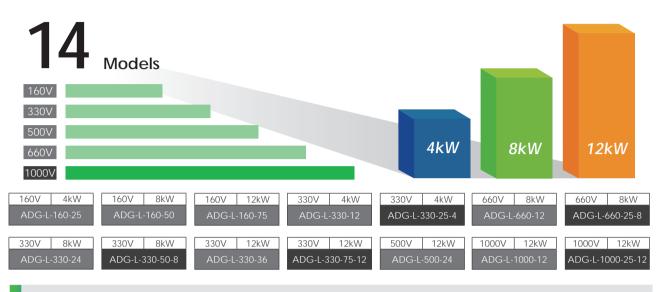
The ADG-L series can be controlled via the Preen Program to configure sophisticate sequences, save/recall STEPs, and generate test result reports. This intuitive control software makes remote programming no longer a difficult task.



The DC power supply is equipped with RS-232/RS-485 (MODBUS) for standard interfaces. Optional Ethernet, USB, GPIB and RS-232/RS-485 (SCPI) are also available for better integrations with automatic test systems and the needs of industry 4.0.

Wide Voltage and Current Range

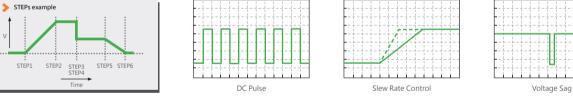
Preen's ADG-L series has 14 different models with three output power levels, 4kW, 8kW and 12kW. With up to 1000V output voltage and multiple Auto Range models, the ADG-L series covers a wide range of applications including electric vehicle, photovoltaic, battery, DC/DC converters and electronic products.



Programming Sequences and Simulations

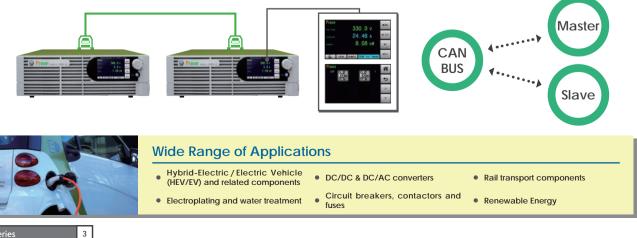
The built-in programming function of the ADG-L series has 99 STEPs for each of the 5 GROUPs. Users can set each STEP's output voltage, output current and time to generate consecutive voltage/current changes or set different rise/ fall time. This built-in function and the ADG-L's control software allow users to create complex DC waveform with sophisticated coding. Making programming the DC power supply an easy task.



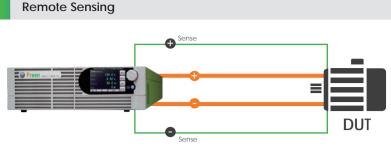


Master/Slave Parallel Operation

Through a simple and fast setup, the ADG-L series can generate higher power by connecting identical models in a master/slave parallel operation. Users only need to control the master unit for multiple units' setup and readbacks. The master unit automatically calculates the parameters and downloads data to slave units to make programming easier and current sharing more precise.



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In many laboratories or factories, the DC power supply is located a certain distance away from the DUT, and this sometimes causes voltage drop due to the resistance of the wires. The ADG-L is equipped with remote sensing to compensate voltage drops and provide a stable output voltage, and it allows users to have the desired voltage appear at DUT.

Error Log for Easy Analysis



The EVENT function of the ADG-L series provides an error log to record critical errors up to 999 items. The log includes date, time and error types to help users better analyze fault conditions.

Device Protection

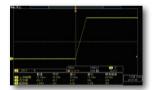
The ADG-L series has multiple levels of protection to safeguard you device. These include over-voltage, overcurrent, over-power, over-temperature, and input under/overvoltage to shut down the power supply output to prevent fault conditions and further damages.

Multiple Ways of AC Input Connection

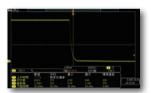
Conventional DC power supplies have only one type of AC input range and one way of input wirings. Different from most of high power DC power supply, the ADG-L series' 8kW and 12kW models offer more than two ways of input connections. For example, the 8kW models can have single phase or three phase input without factory modifications. This feature provides flexibility and convenience for users to operate the unit in different environments.

Industry-leading Performance

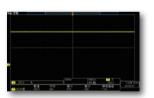
The ADG-L series is designed for low ripple, high accuracy and tight regulation for simulating different DC voltages. With fast transient response and rise time, the ADG-L DC sources are ideal to test DUT behavior to voltage sags, dropouts, ON/OFF tests and complex DC waveforms.



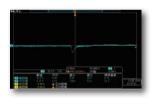
Fast Rise Time



Fast Fall Time



Low Voltage Ripple



Fast Transient Response

0.99 Input Power Factor

PF up to QQ The ADG-L series is equipped with active Power Factor Corrector (PFC) to enhance input PF up to industry-leading 0.99, which helps reduce the interference on the grid. Input Power (Apparent Power) Comparison Effectively increase real power (P) and reduce reactive power (Q) for better energy saving and operation cost. PF= 0.99 vs. PF = 0.7 PF = 0.7Able to suppress peak current and power loss to have 02 21.7kVA (33A) η = 0.8 lower harmonic distortions. PF = 0.99 13kVA (20A) 8.7kVA η = 0.9 Reduce input current to have compact and high power 03 density DC sources. Save 40% of input power Save more energy and lower carbon footprint for better environment. For a 12kW ADG-L model with 3-phase 4-wire 220/380V input, when power factor (PF) increases from 0.7 to 0.99 and efficiency improves from 0.8 to 0.9, input power (apparent power) can effectively reduce The ADG-L series (with PFC) v.s. Conventional DC Sources (no PFC) 40% for energy saving. refer to the chart on the right



ADG-P series

Standard 1	·		– Optional	_		
RS-485	RS-232		GPIB		Analog	J
		1	30kW~	1	00kW	

High Power Programmable DC Power Supply

Preen's ADG series is a programmable DC power supply with high power density and high output power, offering great response time, high accuracy and many output voltage and current combinations. Designed for the increasing demand of high power DC, ADG is ideal for testing EV's motor/compressor, server power supply, fuse/ circuit breaker/contactor, and PV inverter or can be used as a facility power or EMC chamber power.

With output power up to 100kW per unit, the ADG series offers output voltage up to 1600V and output current up to 2500A.

Users can select standard RS-485 interface or optional RS- 232 and GPIB. The STEP and GRADUAL modes allow easy setup on test sequence and depending on CV/CC settings and load conditions, ADG series can operate as a current or voltage source. Its remote sensing feature can effectively reduce voltage drop caused by cable length and provides more flexibility on installation.



Preen

15s

380V

A DC power supply with

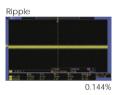
"High Output Voltage, High Output Current, Wide Range of Output Power, and Programmable Functions."

Easy Remote Control Set Up & Technically Advanced Performance



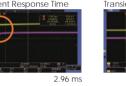
ADG-P series comes with RS-485 interfaces and optional RS-232 and GPIB interfaces, allow user to easily programming the unit through different interfaces or Preen's control software.

Technically Advanced Performance



Slew Rate 77ms





Transient Response Time 3.16 ms

The built-in STEP and GRADUAL modes allow users to set up

sequences of start / end voltage, run time and current for different

testing simulations. Or users can contact us to customize different

built-in voltage and current simulations for easy testing set up.

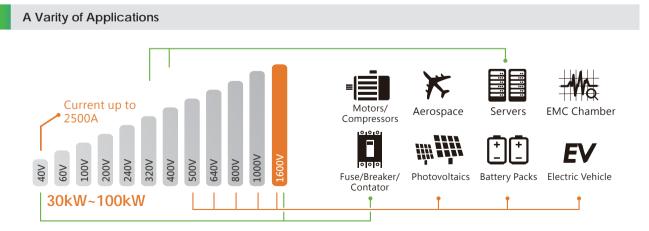


ADG series has the industry leading performance on ripple, response time, and voltage regulation, which make it an ideal DC power supply for all kinds of testing.

User-friendly HMI



ADG series has an intuitive touch screen HMI for easy operation and data display. Users also can easily set up voltage or current variation simulations through the built-in programmable functions in the touch screen.



ADG series has many output voltage ranges suitable for different market applications. Models over 640V output voltage are applicable for renewable energy, EV, and lithium battery industries. When it comes to circuit breakers, contactors or fuses that require high voltage or current, models with 2000A or 1600V can fulfill the power demands of this type of component testing. The 400V or 320V models can be applied to server related applications due to the increased needs for high voltage DC in data centers.

ADG-L SPECIFICATIONS

Preliminary

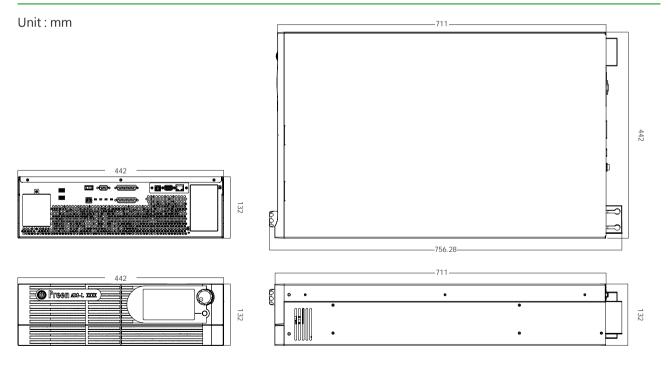
Model		ADG-L-160-25	ADG-L-330-12	ADG-L-330-25-4	ADG-L-160-50	ADG-L-330-24	ADG-L-330-50-8	ADG-L-660-12	
Output Pov	ver	4kW	4kW	4kW	8kW	8kW	8kW	8kW	
INPUT						-		_	
Input Volta	ge		1Ф 2W+G 187-264 Vac		1Ф 2W+G 187-264 Vac 3Ф4W+G 340-460 Vac				
Input Curre	ent		24A				: 48A : 24A		
Input Frequ	uency				47 Hz - 63 Hz				
Power Fact	or			≧	0.99 at max. pow	er			
OUTPUT				1		1			
Voltage		0~160V	0~330V	0~330V	0~160V	0~330V	0~330V	0~660V	
Current		0~25A	0~12A	0~25A	0~50A	0~24A	0~50A	0~12A	
Voltage Rip	• • •	≦ 0.15% F.S.	$\leq 0.08\%$ F.S.	≦ 0.08% F.S.	$\leq 0.15\%$ F.S.	≦ 0.08% F.S.	≦ 0.08% F.S.	≦ 0.08% F.S.	
Voltage Rip (peak to pe	eak)	≦ 1.6% F.S.	\leq 0.8% F.S.	\leq 0.8% F.S.	≦ 2.5% F.S.	$\leq 1.6\%$ F.S.	≦ 1.6% F.S.	≦ 0.8% F.S.	
Voltage Lin Regulation				1	≦ 0.03% F.S.	1			
Voltage Loa Regulation	*1	≦ 0.08% F.S.	≦ 0.05% F.S.	≦ 0.05% F.S.	≦ 0.08% F.S. + 80mV	≦ 0.08% F.S. + 80mV	≦ 0.08% F.S. + 80mV	≦ 0.05% F.S.	
Current Rip	· · /	≦ 0.15% F.S.	$\leq 0.25\%$ F.S.	$\leq 0.15\%$ F.S.	$\leq 0.15\%$ F.S.	≦ 0.25% F.S.	$\leq 0.15\%$ F.S.	≦ 0.5% F.S.	
Current Lin Regulation	-			1	≦ 0.05% F.S.	1			
Current Loa Regulation		≦ 0.10% F.S.	≦ 0.10% F.S.	≦ 0.10% F.S.	≦ 0.2% F.S.	≦ 0.2% F.S.	≦ 0.2% F.S.	≦ 0.25% F.S.	
Transient R	esponse ^{*2}	≦ 3ms	≦ 3ms	≦ 3ms	≦3ms	≦ 3ms	≦ 3ms	≦ 3.5ms	
Efficiency			≥ 90% at max. power						
	Rise Time	≦ 25ms	≦ 35ms	≦ 35ms	≦ 25ms	≦ 40ms	≦ 40ms	≦ 60ms	
Slew Rate ^{*3}	Fall Time (Full Load)	≦ 30ms	≦40ms	≦40ms	≦ 35ms	≦45ms	≦45ms	≦ 45ms	
	Fall Time (No Load)				≦10s				
	ing & Measu	rement							
Voltage Pro Accuracy				≦	0.15%F.S.+100m	V			
Accuracy	easurement		≦ 0.15%F.S.+100n	nV	≤ 0.15%F.S.+100mV ≤ 0.15%F.V.+100mV				
Voltage Res Current Pro					100mV				
Accuracy	granning				$\leq 0.4\%$ F.S.+60mA				
Current Me Accuracy	easurement		$\leq 0.3\%$ F.S.+60m/	A		≦ 0.3%F.S.+60m	A	≦ 0.4%F.S. +60mA	
Current Res	solution				10mA				
General Sp	ecs.								
Interfaces				Standard: RS-4 Optional: Ethernet	485/RS-232 (Mod /USB/RS-485/RS-		В		
Remote ser compensat					$\leq 5V$				
Operating Temperatu	re				0° C ~ 40° C				
Storage Ter	mperature				-20° C ~ 70° C				
Protections	5			OVP、OCP、OPF Vin L	· · OTP · Vin OV · V · Phase Fail · Fa		1		
OVP Range	2				0~110% F.S.				
OCP Range					0~110% F.S.				
Dimension	(HxWxD)			132 x 442 x 756	mm / 5.20 x 17.4	0 x 29.76 inches			
Weight			4k	W: approx. 26kg / 5	7.32lbs 8kW: a	pprox. 33kg / 72.	75lbs		

ADG-L SPECIFICATIONS

Model		ADG-L-660-25-8	ADG-I -160-75	ADG-1-330-36	ADG-L-330-75-12	ADG-1-500-24	ADG-L-1000-12	ADG-L-1000-25-12		
Output Pov	ver	8kW	12kW	12kW	12kW	12kW	12kW	12kW		
INPUT		ORVV	IZKW	IZKW	IZKW	12000	IZRVV	1200		
Input Volta	ge	1Ф 2W+G 187- 264 Vac 3Ф4W+G 340-460 Vac			3Φ3W+G	5 187-264 Vac 187-264 Vac 340-460 Vac				
Input Curre	nt	1Φ : 48A 3Φ : 24A								
Input Frequ	iency		47 Hz - 63 Hz							
Power Facto	or				\geq 0.99 at max. pov	wer				
OUTPUT										
Voltage		0~660V	0~160V	0~330V	0~330V	0~500V	0~1000V	0~1000V		
Current		0~25A	0~75A	0~36A	0~75A	0~24A	0~12A	0~25A		
Voltage Rip		\leq 0.08% F.S.	≦ 0.15% F.S.	≦ 0.08% F.S.	$\leq 0.08\%$ F.S.	≦ 0.1% F.S.	≦ 0.06% F.S.	≦ 0.06% F.S.		
Voltage Rip (peak to pe	ak)	≦ 0.8% F.S.	\leq 1.6% F.S.	\leq 1% F.S.	\leq 1% F.S.	\leq 0.8% F.S.	\leq 0.5% F.S.	≦ 0.5% F.S.		
Voltage Lin Regulation	e				$\leq 0.03\%$ F.S.					
Voltage Loa Regulation	ad *1	≦0.05% F.S.	≦ 0.25% F.S.	≦ 0.25% F.S.	≦0.25% F.S.	≦ 0.05% F.S.	≦ 0.05% F.S.	≦ 0.05% F.S.		
Current Rip	ple (rms)	\leq 0.25% F.S.	$\leq 0.1\%$ F.S.	$\leq 0.15\%$ F.S.	$\leq 0.1\%$ F.S.	\leq 0.25% F.S.	\leq 0.5% F.S.	\leq 0.25% F.S.		
Current Line Regulation					≦ 0.05% F.S.					
Current Loa Regulation		≦ 0.25% F.S.	$\leq 0.1\%$ F.S.	$\leq 0.1\%$ F.S.	≦ 0.1% F.S.	≦ 0.15% F.S.	≦ 0.15% F.S.	≦ 0.15% F.S.		
Transient R	esponse *2	≦ 3.5ms	≦4ms	≦4ms	≦4ms	≦ 3ms	≦ 3ms	≦ 3ms		
Efficiency			ſ	[≥ 90% at max. pov	wer	1	1		
	Rise Time	≦ 60ms	≦ 25ms	≦ 35ms	≦ 35ms	≦ 45ms	≦ 90ms	≦ 90ms		
Slew Rate ^{*3}	Fall Time (Full Load)	≦45ms	≦ 35ms	≦45ms	≦45ms	≦ 30ms	≦40ms	≦ 40ms		
	Fall Time (No Load)				≦10s					
Voltage Pro	ng & Measu	rement								
Accuracy	granning				\leq 0.15%F.S.+100r	mV				
Voltage Me Accuracy	asurement	≦ 0.15%F. S.+100mV		≤0.15%F.S.+100	mV		$\leq 0.15\%$ F.S.+150	mV		
Voltage Res	solution				100mV					
Current Pro Accuracy					≦ 0.4%F.S.+60m	A				
Current Me Accuracy		≦ 0.4%F.S. +60mA		$\leq 0.4\%$ F.S.+60m	A		\leq 1%F.S.+150m	A		
Current Res					10mA					
General Spe Interfaces	ecs.				RS-485/RS-232 (Mo					
Remote ser				Optional: Ether	met/USB/RS-485/RS ≦5V	5-232 (SCPI) OF G	IPIB			
compensati Operating Temperatur					0° C ~ 40° C					
Storage Ten					-20° C ~ 70° C					
Protections	-				OPP OTP Vin OV in LV Phase Fail	、 Vin UV 、 LDC (DV V			
OVP Range				v	0~110% F.S.					
OCP Range					0~110% F.S.					
Dimension				132 x 442 x	756 mm / 5.20 x 17.	40 x 29.76 inches	ŝ			
Weight			8k\	N: approx. 33kg		: approx. 40kg / 8				

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Programmable DC Power Supply (Auto Range Model)
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Programmable DC Power Supply (Auto Range Model)
Single-Phase Input Power Cord 3m (for 4kW/8kW)
Single-Phase Input Power Cord 5m (for 4kW/8kW)
Three-Phase Input Y Connection Power Cord 3m
Three-Phase Input Y Connection Power Cord 5m
Three-Phase Input \triangle Connection Power Cord 3m
Three-Phase Input $ riangle$ Connection Power Cord 5m
RS-232/RS-485/USB/Ethernet (SCPI) Interface Board
Multiple Units Connection Cord DB25(Male * 2) 50 cm
GPIB Interface Board

ADG-L Dimemsions



*1. Load changes from 0% to 100% under nominal AC input

- *2. Under nominal AC input, recovers to ±1% of full-scale output voltage for a 50% to 100% or 100% to 50% load change
 *3. Measured from 10% to 90% of the output voltage change resistive load, typical
 * All specifications are subject to change without notice.
 ** Above specifications are under output voltage over 1% FS

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ADG-P SPECIFICATIONS

30kW	Output Voltage	Output Current	Voltage Ripple (RMS)	Voltage Noise (Peak)	Voltage Slew Rate ^{*1}
ADG-P-40-750	0~40V	0~750A			
ADG-P-60-500	0~60V	0~500A	≦ 0.5%	≦ 3.7%	≦65ms
ADG-P-100-300	0~100V	0~300A			
ADG-P-200-150	0~200V	0~150A	≦0.26%	< 29/	≦ 60ms
ADG-P-240-125	0~240V	0~125A	≦0.19%	≦ 2%	< 9Emc
ADG-P-320-94	0~320V	0~94A	≦0.16%	≤ 0.88%	≦ 85ms
ADG-P-400-75	0~400V	0~75A			
ADG-P-500-60	0~500V	0~60A	≦ 0.13%	≦1.34%	≦115ms
ADG-P-640-47	0~640V	0~47A	≦ 0.109%	≦ 0.77%	
ADG-P-800-38	0~800V	0~38A	≦ 0.07%	≦0.29%	
ADG-P-1000-30	0~1000V	0~30A	≦ 0.05%	≦0.27%	≦ 280ms
ADG-P-1600-18	0~1600V	0~18A	≦ 0.08%	≦ 0.4%	

50kW	Output Voltage	Output Current	Voltage Ripple (RMS)	Voltage Noise (Peak)	Voltage Slew Rate ^{*1}
ADG-P-40-1250	0~40V	0~1250A			
ADG-P-60-834	0~60V	0~834A	≦ 0.5%	≦ 3.7%	≦65ms
ADG-P-100-500	0~100V	0~500A			
ADG-P-200-250	0~200V	0~250A	≦0.26%	< 20/	≦ 60ms
ADG-P-240-208	0~240V	0~208A	≦0.19%	≦2%	≤ 85ms
ADG-P-320-156	0~320V	0~156A	≦0.16%	≤ 0.88%	≥ 031115
ADG-P-400-125	0~400V	0~125A	< 0.129/	≥ 0.00 /0	
ADG-P-500-100	0~500V	0~100A	≦0.13%	≦ 1.34%	≦ 115ms
ADG-P-640-78	0~640V	0~78A	≦ 0.109%	≦ 0.77%	
ADG-P-800-63	0~800V	0~63A	≦0.07%	≦ 0.29%	
ADG-P-1000-50	0~1000V	0~50A	≦0.05%	≦ 0.27%	≦ 280ms
ADG-P-1600-31	0~1600V	0~31A	≦0.08%	≦0.4%	

75kW	Output Voltage	Output Current	Voltage Ripple (RMS)	Voltage Noise (Peak)	Voltage Slew Rate ^{*1}	
ADG-P-40-1875	0~40V	0~1875A	≦ 1.3%	≦7%		
ADG-P-60-1250	0~60V	0~1250A	≦ 1.5%	≦ 5%	≦ 120ms	
ADG-P-100-750	0~100V	0~750A	≦ 1.5%	≦ 5%		
ADG-P-320-234	0~320V	0~234A	< 0.1%	< 0.65%	≦90ms	
ADG-P-640-117	0~640V	0~117A	≦ 0.1%	≦ 0.35%	≦120ms	
ADG-P-1000-75	0~1000V	0~75A	≦ 0.2%	≦0.8%	≦130ms	
ADG-P-1600-47	0~1600V	0~47A	≤ 0.1%	≦ 0.5%	≦ 300ms	

100kW	Output Voltage	Output Current	Voltage Ripple (RMS)	Voltage Noise (Peak)	Voltage Slew Rate ^{*1}
ADG-P-40-2500	0~40V	0~2500A	≦ 1.3%	≦7%	
ADG-P-60-1666	0~60V	0~1666A	≦ 1.5%	≦ 5%	≦ 120ms
ADG-P-100-1000	0~100V	0~1000A	≦ 1.5%	≦ 5%	
ADG-P-320-312	0~320V	0~312A	< 0.1%	< 0.65%	≦90ms
ADG-P-640-156	0~640V	0~156A	≦ 0.1%	≦ 0.35%	≦ 120ms
ADG-P-1000-100	0~1000V	0~100A	≦ 0.2%	≦0.8%	≦130ms
ADG-P-1600-63	0~1600V	0~63A	≦ 0.1%	≦0.5%	≦ 300ms

*1 For output voltage change from 5% to 90% at maximum power after output softstart. * Voltage ripple and noise specs are under full scale •

ADG-P SPECIFICATIONS

	30kW	ADG-P-40-750	ADG-P-60-500	ADG-P-100-300	ADG-P-200-150	ADG-P-240-125	ADG-P-320-94			
	50kW	ADG-P-40-1250	ADG-P-60-834	ADG-P-100-500	ADG-P-200-250	ADG-P-240-208	ADG-P-320-156			
ACInput	Voltage		38	3Φ3V 0Vac ± 15% (Optic	V + G on : 200V/208V/480)V)				
AC Input	Frequency		47-63Hz							
	Power factor			≧ 0.9 at max	imum power					
	Output Voltage	40V	60V	100V	200V	240V	320V			
	Output Current (30kW)	750A	500A	300A	150A	125A	94A			
DC Output	Output Current (40kW)	1000A	666A	400A	200A	166A	125A			
DC Output	Output Current (50kW)	1250A	834A	500A	250A	208A	156A			
	Line Regulation		< 0.3%		< 0.1%					
	Load Regualtion		< 0.3%		< 0.065%	< 0.104%	< 0.14%			
	Transient Response ^{*2}	≦ 4-12ms								
	Voltage Accuracy	0.5% F.S.								
Measurement	Voltage Resolution		0.1V							
wiedsurennenn	Current Accuracy			0.5%	6 F.S.					
	Current Resolution			0.	1A					
	Туре		Vin OVP, Vin UVP, OVP, OCP. OTP							
Protection	OVP Range		5% - 115% from front panel							
	OCP Range			5% - 115% fro	om front panel					
	Efficiency	≧ 87	% at maximum po	ower	<u>≥</u> 90	% at maximum po	ower			
	Remote Interface			RS-485 (Opt. GPIB	/ RS-232/Analog)					
	Operational Temerature				40° C					
	Storage Temerature				- 70° C					
General	Isolation				sure: 2000VAC					
	Dimension (H×W×D)		380V Input 220/200V/480V	: 1050 x 600 x 800 Input : 1385 x 600	(mm) / 41.4 x 23.7 x 800 (mm) 54.5 x	x 31.5(inch) 23.7 x 31.5(inch)				
	Weight		ut : approx. 225 kg)V Input : approx. (ut : approx. 187 kg)V Input : approx. :				

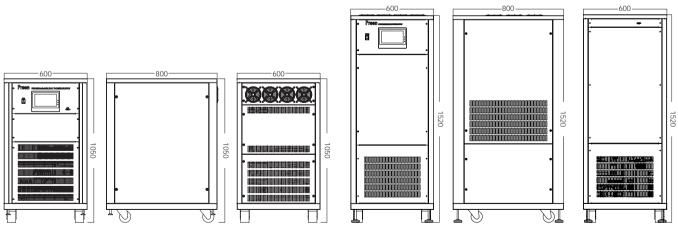
30kW		ADG-P-400-75	ADG-P-500-60	ADG-P-640-47	ADG-P-800-38	ADG-P-1000-30	ADG-P-1600-18					
	50kW		ADG-P-500-100	ADG-P-640-78	ADG-P-800-63	ADG-P-1000-50	ADG-P-1600-31					
	Voltage		380	3ФЗV OVac ± 15% (Optic		0V)						
AC Input	Frequency			47-6	53Hz							
	Power factor		≧ 0.9 at maximum power									
	Output Voltage	400V	500V	1000V	1600V							
	Output Current (30kW)	75A	60A	47A	38A	30A	18A					
	Output Current (40kW)	100A	80A	62A	50A	40A	25A					
DC Output	Output Current (50kW)	125A	100A	78A	63A	50A	31A					
	Line Regulation		< 0.1%									
	Load Regualtion	< 0.032%	< 0.032% < 0.14% < 0.132% < 0.034% < 0.02%									
	Transient Response ^{*2}	≤4-12ms										
	Voltage Accuracy	0.5% F.S.										
Measurement	Voltage Resolution	0.1V										
Weasurement	Current Accuracy			0.5%	6 F.S.							
	Current Resolution			0.3	1A							
	Туре		Vin OVP, Vin UVP, OVP, OCP. OTP									
Protection	OVP Range			5% - 115% fro	om front panel							
	OCP Range				om front panel							
	Efficiency			≧ 90% at max								
	Remote Interface			RS-485 (Opt. GPIB	,)						
	Operational Temerature			0° C -	40° C							
General	Storage Temerature			-20° C	- 70° C							
General	Isolation			Input to Enclo								
	Dimension (H×W×D)		220/200V/480V	: 1050 x 600 x 800 Input : 1385 x 600	x 800 (mm) 54.5 x	23.7 x 31.5(inch)						
	Weight			380V Input : appro 208V/480V Input :								

ADG-P SPECIFICATIONS

	75kW	ADG-P-40 -1875	ADG-P-60 -1250	ADG-P-100 -750	ADG-P-320 -234	ADG-P-640 -117	ADG-P-1000 -75	ADG-P-1600 -47		
	100kW	ADG-P-40 -2500	ADG-P-60 -1666	ADG-P-100 -1000	ADG-P-320 -312	ADG-P-640 -156	ADG-P-1000 -100	ADG-P-1600 -63		
	Voltage			380Vac ± 159	3Ф3W + G % (Option : 200\	//208V/480V)				
AC Input	Frequency				47 - 63Hz					
	Power factor			≥ 909	6 at maximum p	ower				
	Output Voltage	40V	60V	100V	320V	640V	1000V	1600V		
	Output Current (75kW)	1875A	1250A	750A	234A	117A	75A	47A		
DC Output	Output Current (100kW)	2500A	1666A	1000A	312A	156A	100A	63A		
	Line Regulation	< 0.1%								
	Load Regualtion	< 0.1%	< 0.15%	< 0.15%	< 0.08%	< 0.08%	< 0.1%	< 0.08%		
	Transient Response *2	≦ 10-20ms								
	Voltage Accuracy	0.5% F.S.								
Measurement	Voltage Resolution				0.1V					
Weasurement	Current Accuracy	0.5% F.S.								
	Current Resolution	0.1A								
	Туре			Vin OVP	Vin UVP, OVP, O	DCP. OTP				
Protection	OVP Range				15% from front					
	OCP Range			5% - 1	15% from front	panel				
	Efficiency	≧ 879	6 at maximum p	ower		≧ 90% at ma	ximum power			
	Remote Interface			RS-485 (O	pt. GPIB / RS-23	2/Analog)				
	Operational Temerature				0° C - 40° C					
	Storage Temerature				-20° C - 70° C					
General	Isolation			Input	to Enclosure: 20	00VAC				
	Dimension (H×W×D)			nput : 1520 x 60 480V Input : 202						
	Weight		20	380V Input 00V/208V/480V	: approx. 294kg Input : approx. !		lbs			

ADG-P Dimemsions

Unit : mm



ADG-P 30/50kW*3

ADG-P 75/100kW *3

*2 Recover to ±0.1% of regulated output with a 50% to 100% or 100% to 50% step load change.

* All specifications are subject to change without notice.
 ** Above specifications are for output voltage over 1% F.S.
 *** Specifications for line regulation and load regulation are under full scales.

AC POWER CORP.

Specialized in power electronics, Preen (AC Power Corp.) has been developing products based on its core technology of Power Conversion. Product Line includes AC Power Sources, DC Power Supplies, Power Supplies for Defense Industry, Renewable Energy Simulators, Line Conditioners and UPS. Boasting one of the broadest product line in the industries. Preen specializes in High Power Source and has developed AC power source up to 2MVA with high power density.

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