Programmable DC Power Supply



- Low Ripple&Tight Regulation
- ▼ 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
 - 4-100kW
- 16 Different Output Voltages & 52 Models.
- Fast Transient Response



Programmable DC Power Supply

The Best DC Power Solution for Renewable Energy, Electric Vehicle(EV) and Smart Grid Applications



ADG series family of programmable DC power supply includes the ADG-P series and the new release ADG-L series, covering power level from 4kW up to 100kW in a single unit. These compact DC power supplies come in 16 output voltage ranges with maximum voltage up to 1600V and maximum current up to 2500A. All the models are equipped with an intuitive touch screen and built-in programmable functions. The ADG family also has control software available for easy remote control and programming. With features of high precision and high performance, the ADG family is an ideal DC power solution for functional tests or design validation of renewable energy, electric vehicle supply equipment (EVSE), on-board or off board battery charger (OBC/OFF-BC), DC-DC converter, and DC electronics.

ADG series family features

Intuitive Touch Screen

All models of the ADG series family are equipped with touch screen for easy operation and monitoring.

High Voltage Models

Multiple high voltage models with output up to 1600V for EV and renewable energy applications.

Modular Design

The modular design of the power unit greatly enhances the ADG family's performance stability.

Auto-Range Models for a Wide Range Operation

Auto-range models of the ADG-L series can provide a higher current at a lower voltage, providing a wide range output with a smaller footprint and a better cost performance. DSP Control System

Utilizing digital signal processing (DSP) technology, the ADG family has better performance and precision.

Easy Remote Control

Multiple remote interfaces are available for system integrations and remote control.

7 Simulations via Built-in Sequences

Power normal or abnormal conditions can be simulated via control software or touch screen HMI.

RoHS Compliant

The ADG family is designed and manufactured under RohS compliance for environmental sustainability.

Produ	ict series	ADG-L	ADG-P				
Output Power		4-12kW	30-100kW				
Output Voltage		0-160V to 0-1000V	0-40V to 0-1600V				
N	lode	CV/CC/CP	CV/CC				
Powe	er Factor	≧ 0.99	≥ 0.9				
Step	& Ramp	0	0				
Auto-Range Model		Δ	-				
H	HMI	Touch screen	Touch screen				
Parallel	Operation	0	Δ				
Eve	nt Log	0	0				
OVP/0	CP Setting	0	0				
Remo	te Sense	0	Δ				
Contro	l Software	0	0				
	RS-232	0	Δ				
	RS-485	0	0				
Remote	USB	Δ	-				
Interface	Ethernet	Δ	-				
	GPIB	Δ	Δ				
	Analog	0	Δ				

O: Standard A: Optional / Custom Design



Programmable DC Power Supply

4kW/8kW/12kW

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.

Current up to **150A***

*via parallel configuration

Voltage up to 1000V

Multiple Ways of Input Wiring single or three phase input available

1Ф & 3Ф

*for 8kW & 12kW models only

Step & Ramp Simulations

10 ms

99999.9 hr

Output Modes

CV/CC/CP

Built-in Sequences

up to

495 STEPs

High Power Density

12kW in

3U

*13.2cm/5.2inches

ADG-L PANEL DESCRIPTION

- 1. Power Switch
- 2. Touch Screen
- 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

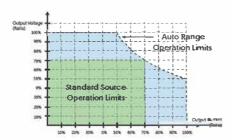


Rear Panel Overview





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



9.0 V 9.0 A 3.79 KB



300 C V

50 4

The ADG-L series employs 5"touch screen and rotary knob to provide intuitive and easy-to-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





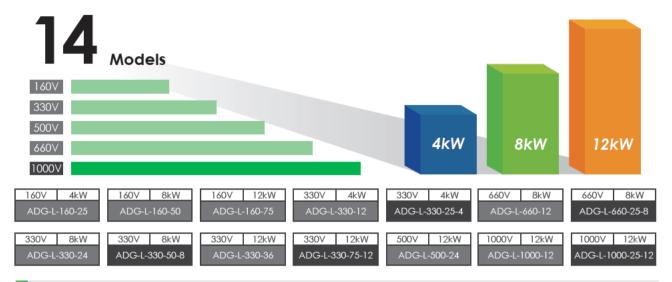
The ADG-L series can be controlled via the Preen Program to configure sophisticate sequences, save/recall STEPs, and generate test result reports. This intuitive control software makes remote programming no longer a difficult task.



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

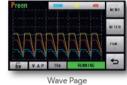
Preen's ADG-L series has 14 different models with three output power levels, 4kW, 8kW and 12kW. With up to 1000V output voltage and multiple Auto Range models, the ADG-L series covers a wide range of applications including electric vehicle, photovoltaic, battery, DC/DC converters and electronic products.

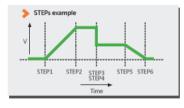


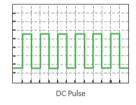
Programming Sequences and Simulations

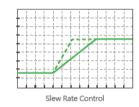
The built-in programming function of the ADG-L series has 99 STEPs for each of the 5 GROUPs. Users can set each STEP's output voltage, output current and time to generate consecutive voltage/current changes or set different rise/fall time. This built-in function and the ADG-L's control software allow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

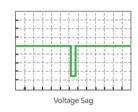












Master/Slave Parallel Operation

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.



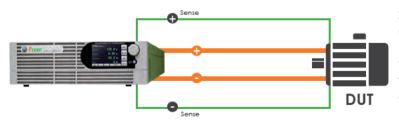
Wide Range of Applications

- Hybrid-Electric / Electric Vehicle
 (HEV/EV) and related components
- DC/DC & DC/AC converters
- Rail transport components

- Electroplating and water treatment
- Circuit breakers, contactors and
- Renewable Energy



Remote Sensing



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.

Device Protection

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

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.

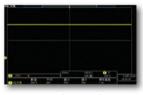
Multiple Ways of AC Input Connection

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

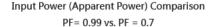
Low Voltage Ripple Fast Transient Response

0.99 Input Power Factor

0.99

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.

- O1 Effectively increase real power (P) and reduce reactive power (Q) for better energy saving and operation cost.
- Able to suppress peak current and power loss to have lower harmonic distortions.
- Reduce input current to have compact and high power density DC sources.
- Save more energy and lower carbon footprint for better environment.
- The ADG-L series (with PFC) v.s. Conventional DC Sources (no PFC)
 refer to the chart on the right





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 40% for energy saving.

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.

NEW

DSP Technology Design

Great Advances in Performance

High Power 30-100kW

<0.1%-0.2% Low Ripple

Fast Transient Response

< 4ms

High Effciency

>90%

High Voltage

15 voltage ranges up to

2000V

High Current

up to

2000A

For Wide Applications

models

Applications



Renewable Energy



EMC Chamber



Aircraft Manufacturing



Laboratory



Electronics



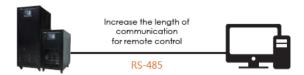




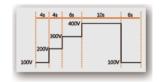
A DC power supply with

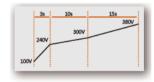
"High Output Voltage, High Output Current, Wide Range of Output Power, and Programmable Functions."

Easy Remote Control Set Up & Technically Advanced Performance



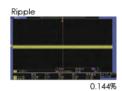
ADG-P series comes with RS-485 interfaces and optional RS-232 and GPIB interfaces, allow user to easily programming the unit through different interfaces or Preen's control software.

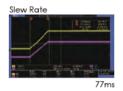




The built-in STEP and GRADUAL modes allow users to set up sequences of start / end voltage, run time and current for different testing simulations. Or users can contact us to customize different built-in voltage and current simulations for easy testing set up.

Technically Advanced Performance











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

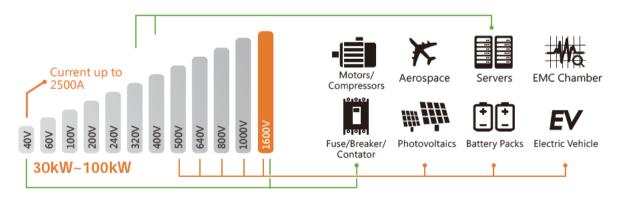






ADG series has an intuitive touch screen HMI for easy operation and data display. Users also can easily set up voltage or current variation simulations through the built-in programmable functions in the touch screen.

A Varity of Applications



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

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 Pow	er	4kW	4kW 4kW 4kW			8kW	8kW	8kW	
INPUT									
Input Voltag	je		1Ф 2W+G 187-264 Vac		1Ф 2W+G 187-264 Vac 3Ф4W+G 340-460 Vac				
Input Currer	nt		24A			: 48A : 24A			
Input Freque	ency				47 Hz - 63 Hz				
Power Facto	r			≥	0.99 at max. powe	er			
OUTPUT									
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 Ripp	ple (rms)	≤ 0.15% F.S.	≤ 0.08% F.S.	≤ 0.08% F.S.	≤ 0.15% F.S.	≤ 0.08% F.S.	≦ 0.08% F.S.	≤ 0.08% F.S.	
Voltage Ripp (peak to pea	ak)	≤ 1.6% F.S.	≤ 0.8% F.S.	≤ 0.8% F.S.	≤ 2.5% F.S.	≤ 1.6% F.S.	≤ 1.6% F.S.	≤ 0.8% F.S.	
Voltage Line Regulation	2				≤ 0.03% F.S.				
Voltage Load Regulation ^{*1}	d L	≤ 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 Ripp	ole (rms)	≤ 0.15% F.S.	≤ 0.25% F.S.	≤ 0.15% F.S.	≤ 0.15% F.S.	≤ 0.25% F.S.	≤ 0.15% F.S.	≤ 0.5% F.S.	
Current Line Regulation	:				≤ 0.05% F.S.				
Current Load 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 Re	esponse*2	≤3ms	<u>≤</u> 3ms	≤ 3ms	≤ 3ms	≤ 3ms	≤3ms	≤ 3.5ms	
Efficiency				≧	≥ 90% at max. power				
<u> </u>	Rise Time	≤ 25ms	≦ 35ms	≤ 35ms	≤ 25ms	≤ 40ms	≤ 40ms	≤ 60ms	
I F	Fall Time (Full Load)	≤ 30ms	≤ 40ms	≤ 40ms	≤35ms	≤ 45ms	≦ 45ms	≤ 45ms	
(Fall Time (No Load)				≤10s				
	ng & Measur	ement							
Voltage Prog Accuracy				≦	0.15%F.S.+100m\	V			
Voltage Mea Accuracy			≤ 0.15%F.S.+100n	nV	:	≤ 0.15%F.S.+100n	nV	≤ 0.15%F.S. +100mV	
Voltage Reso					100mV				
Current Prog Accuracy					≤ 0.4%F.S.+60mA				
Current Mea Accuracy	asurement		≤ 0.3%F.S.+60m/	A		≤ 0.3%F.S.+60m	A	≤ 0.4%F.S. +60mA	
Current Reso					10mA				
General Spe	CS.	ı							
Interfaces				Standard: RS-2 Optional: Ethernet	185/RS-232 (Mod /USB/RS-485/RS-		В		
Remote sens compensation					≦ 5V				
Operating Temperature	e				0° C ~ 40° C				
Storage Tem	perature				-20° C ~ 70° C				
Protections				OVP \ OCP \ OPP Vin L\	、OTP、Vin OV、 V、Phase Fail、Fa				
OVP Range					0~110% F.S.				
OCP Range					0~110% F.S.				
Dimension (HxWxD)			132 x 442 x 756	mm / 5.20 x 17.40	0 x 29.76 inches			
Weight			4k	W: approx. 26kg / 5	7.32lbs 8kW: a	pprox. 33kg / 72.7	75lbs		

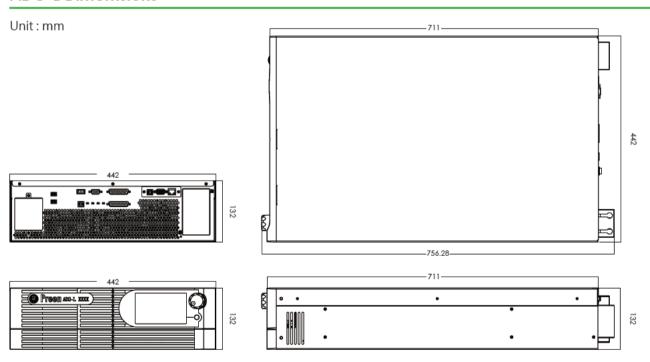
ADG-L SPECIFICATIONS

Model		ADG-L-660-25-8	ADG-L-160-75	ADG-1-330-36	ADG-L-330-75-12	ADG-L-500-24	ADG-L-1000-12	ADG-L-1000-25-12			
Output Pov	ver	8kW	12kW	12kW	12kW	12kW	12kW	12kW			
INPUT	vei	OKVV	IZRVV	IZRVV	IZRVV	IZRVV	IZRVV	IZRVV			
Input Volta	ge	1Ф 2W+G 187- 264 Vac 3Ф4W+G 340-460 Vac	1Ф 2W+G 187-264 Vac 3Ф3W+G 187-264 Vac 3Ф4W+G 340-460 Vac								
Input Curre	nt	1Φ:48A 3Φ:24A		1Φ:72A 3ΦΔ:42A 3ΦY:23A							
Input Frequ	iency				47 Hz - 63 Hz						
Power Facto	or				≥ 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		≤ 0.08% F.S.	≤ 0.15% F.S.	≤ 0.08% F.S.	≤ 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.	≤ 1.6% F.S.	≤ 1% F.S.	≤1% F.S.	≤ 0.8% F.S.	≦ 0.5% F.S.	≤ 0.5% F.S.			
Voltage Lin Regulation	e				≤ 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)	≤ 0.25% F.S.	≤ 0.1% F.S.	≤ 0.15% F.S.	≤ 0.1% F.S.	≤ 0.25% F.S.	≤ 0.5% F.S.	≤ 0.25% F.S.			
Current Line Regulation	e				≤ 0.05% F.S.						
Current Loa Regulation		≤ 0.25% F.S.	≤ 0.1% F.S.	≤ 0.1% F.S.	≤ 0.1% F.S.	≤ 0.15% F.S.	≤ 0.15% F.S.	≤ 0.15% F.S.			
Transient Re	esponse *2	≤ 3.5ms									
Efficiency			≥ 90% at max. power								
	Rise Time	≤ 60ms	≤ 25ms	≤ 35ms	≤ 35ms	≤ 45ms	≤ 90ms	≦ 90ms			
Slew Rate ^{*3}	(Full Load)	≤ 45ms	≤ 35ms	≦ 45ms	≤ 45ms	≦ 30ms	≦ 40ms	≤ 40ms			
	Fall Time (No Load)				≤10s						
	ng & Measu	rement									
Voltage Pro Accuracy	gramming	≤ 0.15%F.S.+100mV									
Voltage Me Accuracy	asurement	≤ 0.15%F. S.+100mV	!	≤ 0.15%F.S.+100	mV	≤0.15%F.S.+150mV					
Voltage Res	solution				100mV						
Current Pro Accuracy					≤ 0.4%F.S.+60m	Α					
Current Me Accuracy		≤ 0.4%F.S. +60mA		≤ 0.4%F.S.+60m			≤ 1%F.S.+150m	nA			
Current Res					10mA						
General Spe	ecs.				RS-485/RS-232 (Mo						
Interfaces Remote ser	nse			Optional: Ether	net/USB/RS-485/R ≤5V	S-232 (SCPI) or G	PIB				
compensati Operating					0° C ~ 40° C						
Temperatur Storage Ten					-20° C ~ 70° C						
Protections					OPP · OTP · Vin OV	· Vin UV · LDC C	V				
OVP Range				V	in LV · Phase Fail · F 0~110% F.S.	Tali Fall					
OCP Range					0~110% F.S.						
Dimension	(HxWxD)			132 x 442 x	756 mm / 5.20 x 17.	40 x 29.76 inches	S				
Weight	8kW: approx. 33kg / 72.75lbs 12kW: approx. 40kg / 88.18lbs										

ADG-L Ordering Information

ADG-L-160-25	Programmable DC Power Supply
ADG-L-160-50	Programmable DC Power Supply
ADG-L-160-75	Programmable DC Power Supply
ADG-L-330-12	Programmable DC Power Supply
ADG-L-330-24	Programmable DC Power Supply
ADG-L-330-36	Programmable DC Power Supply
ADG-L-500-24	Programmable DC Power Supply
ADG-L-660-12	Programmable DC Power Supply
ADG-L-1000-12	Programmable DC Power Supply
ADG-L-330-25-4	Programmable DC Power Supply (Auto Range Model)
ADG-L-330-50-8	Programmable DC Power Supply (Auto Range Model)
ADG-L-330-75-12	Programmable DC Power Supply (Auto Range Model)
ADG-L-660-25-8	Programmable DC Power Supply (Auto Range Model)
ADG-L-1000-25-12	Programmable DC Power Supply (Auto Range Model)
ADG-L-001	Single-Phase Input Power Cord 3m (for 4kW/8kW)
ADG-L-002	Single-Phase Input Power Cord 5m (for 4kW/8kW)
ADG-L-003	Three-Phase Input Y Connection Power Cord 3m
ADG-L-004	Three-Phase Input Y Connection Power Cord 5m
ADG-L-005	Three-Phase Input △ Connection Power Cord 3m
ADG-L-006	Three-Phase Input △ Connection Power Cord 5m
ADG-L-007	RS-232/RS-485/USB/Ethernet (SCPI) Interface Board
ADG-L-008	Multiple Units Connection Cord DB25(Male * 2) 50 cm
ADG-L-013	GPIB Interface Board

ADG-L Dimemsions



- *1. Load changes from 0% to 100% under nominal AC input
- * 2. Under nominal AC input, recovers to $\pm 1\%$ 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

ADG-P SPECIFICATIONS

30k W	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%	- 204	≤ 60ms
ADG-P-240-125	0~240V	0~125A	≤ 0.19%	≤ 2%	≤ 85ms
ADG-P-320-94	0~320V	0~94A	≤ 0.16%	< 0.990/	≥ 021112
ADG-P-400-75	0~400V	0~75A	≤ 0.13%	≤0.88%	
ADG-P-500-60	0~500V	0~60A	≥0.1376	≤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	0~40 V	0~1250A			
ADG-P-60-834	0~60 V	0~834A	≤ 0.5%	<u>ś</u> ≤3.7%	
ADG-P-100-500	0~100V	0~500A	ĺ.		
ADG-P-200-250	0~200V	0~250A	≤ 0.26%		
ADG-P-240-208	0~240V	0~208A	≤0.19%	≦ 2%	405
ADG-P-320- 1 56	0~320V	0~156A	≤ 0.16%	~ O 990/	≦ 85ms
ADG-P-400-125	0~400V	0~125A	<0.130/	≤0.88%	
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	0~1600 V	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	G-P-1000-75 0~1000 V 0~75A		≤ 0.2%	≤ 0.8%	≤ 130ms
ADG-P-1600-47	0~1600V	0~47A	≤ 0.1%	≤ 0.5%	≤ 300ms

100k W	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- 1 56	0~640V	0~156A	≤ 0.1%	≤ 0.35%	≦ 120ms
ADG-P-1000-100	G-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			
AC Input	Voltage		3Ф3W + G 380Vac ± 15% (Option : 200V/208V/480V)							
AC Input	Frequency	47-63Hz								
	Power factor			≥ 0.9 at maxi	mum 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			≤4-1	.2ms					
	Voltage Accuracy	0.5% F.S.								
Measurement	Voltage Resolution	0.1V								
ivicasurement	Current Accuracy	0.5% F.S.								
	Current Resolution		0.1A							
	Туре			Vin OVP, Vin UVI						
Protection	OVP Range	5% - 115% from front panel								
	OCP Range			5% - 115% fro	m front panel					
	Efficiency	≥87	% at maximum po)% at maximum po	wer			
	Remote Interface			RS-485 (Opt. GPIB	/ RS-232/Analog)					
	Operational Temerature			0° C -						
	Storage Temerature			-20° C	- 70° C					
General	Isolation			Input to Enclos	sure: 2000VAC					
	Dimension (H×W×D)			: 1050 x 600 x 800 Input : 1385 x 600						
	Weight		ut : approx. 225 kg)V Input : approx.			ut : approx. 187 kg OV Input : approx. :				

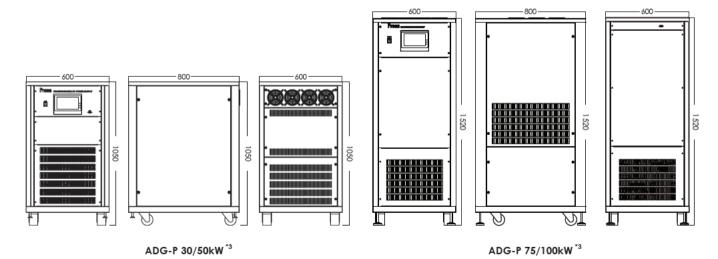
	30kW	ADG-P-400-75	ADG-P-500-60	ADG-P-640-47	ADG-P-800-38	ADG-P-1000-30	ADG-P-1600-18					
	50kW	ADG-P-400-125	ADG-P-500-100	ADG-P-640-78	ADG-P-800-63	ADG-P-1000-50	ADG-P-1600-31					
	Voltage		380	3Ф3V Vac ± 15% (Optio		0V)						
AC Input	Frequency		47-63Hz									
	Power factor		≥ 0.9 at maximum power									
	Output Voltage	400V	500V	640V	800V	1000V	1600V					
	Output Current (30kW)	75A	60A	47A	38A	30A	18A					
200	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%	< 0.14%	< 0.132%	< 0.034%	< 0.02%	< 0.05%					
	Transient Response*2	≤4-12ms										
	Voltage Accuracy	0.5% F.S.										
Measurement	Voltage Resolution	0.1V										
Measurement	Current Accuracy			0.5%	5 F.S.							
	Current Resolution			0.1	LA .							
	Туре		Vin OVP, Vin UVP, OVP, OCP. OTP									
Protection	OVP Range			5% - 115% fro	m front panel							
	OCP Range			5% - 115% fro	m front panel							
	Efficiency			≥ 90% at max	imum power							
	Remote Interface			RS-485 (Opt. GPIB	/ RS-232/Analog)							
	Operational Temerature			0° C -	40° C							
General	Storage Temerature			-20° C	- 70° C							
General	Isolation			Input to Enclo								
	Dimension (H×W×D)			: 1050 x 600 x 800 Input : 1385 x 600								
	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		
A.C. Innext	Voltage	3Ф3W + G 380Vac ± 15% (Option : 200V/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								
ivieasurement	Current Accuracy	0.5% F.S.								
	Current Resolution				0.1A					
	Туре			Vin OVP	Vin UVP, OVP, C	OCP. OTP				
Protection	OVP Range			5% - 1	.15% from front	panel				
	OCP Range			5% - 1	15% from front					
	Efficiency	≥ 879	6 at maximum p	ower		≥ 90% at max	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				to Enclosure: 20					
	Dimension (H×W×D)			nput : 1520 x 60 480V Input : 202						
	Weight		20	380V Input 00V/208V/480V	: approx. 294kg Input : approx. 5		bs			

ADG-P Dimemsions

Unit: mm



- *2 Recover to ±0.1% of regulated output with a 50% to 100% or 100% to 50% step load change.
 *3 The diagrams and dimensions are for 380V input models
 * 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.

Product Lines



- Up to 1000Hz
- 500VA~2,000kVA
- Regenerative Function



- Up to 2,000V
- 2kW ~ 300kW
- Fast Response & Low Ripple

Power Conditioner UPS

- Solid State & Inductive types
- Up to 1500kVA

Applications



Renewable Energy



Laboratory



Aircraft Manufacturing



Transport System



EMC Chamber



Medical Equipment



Control Room/ Data Center



Electronics



ATE System



Airport Apron / Hangar



Home Appliance



Motor / Engine



Communication Equipment



Military aircraft / Helicopter



Navy System



Defense Equipment







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