

ADC series

Rack Mount DC Power Supply

2kW~24kW

CE



- Modular Design : 4kW in 2U, 8kW in 4U only.
- Two Operational Modes: constant-voltage and constant-current.
- Protections: overvoltage, over current, over load, input under voltage and over temperature.
- Remote sense for line drop compensation of 0~3V.
- Standard 19 inches model with high flexibility in different environments.
- CE mark with high electromagnetic compatibility performance.

Applications

- Industrial Power Supply
- Electric Vehicles
- IT / SMT Production Line
- Medical Industry
- Aerospace & Defense
- Communication Industry
- Motor & Compressor
- Power Tool

ADC Series

The ADC series is Preen's classic DC power supply which has high power density, fast response time, high accuracy and wellaround protection. It has been widely adopted in production line, burn-in test, laboratories and integrated system.

With compact size and light weight, ADC series starts from 2 kW and can be paralleled up to 24kW with 19 inches cabinet and the flexible configuration design makes ADC can satisfy the needs of various applications with high price-performance ratio.

High Power Density

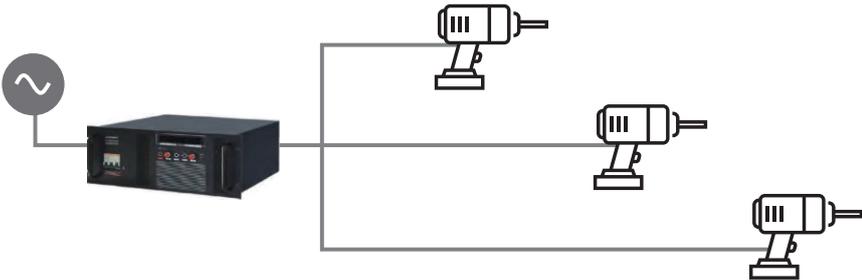
2U / 2-4kW

4U / 8kW



ADC series is 19 inches rack mount type DC power supply with high power density. 2U is up to 4 kW and 4U is up to 8 kW which gives user the flexibility to arrange it's working space and easy to maintain the unit.

Applications



For electric power tools, in order to enhance product reliability and consistency, aging test or accelerated life testing is usually a necessary procedure during R&D or quality assurance stage. The ADC series can be used to simulate the battery of power tools, and provides clean and low ripple DC power for a variety of voltage levels.

SPECIFICATIONS

2 kW Model	Max. Voltage	Max. Current	Size (HxWxD)	Weight
ADC-0300067	30V	67A	88 x 430 x 500 mm	14 kg
ADC-0400050	40V	50A		
ADC-0600033	60V	33A		
ADC-0800025	80V	25A		
ADC-1000020	100V	20A		
ADC-1200017	120V	17A		
ADC-1600013	160V	13A		
ADC-2400008	240V	8A		
ADC-3300006	330V	6A		
ADC-6000003	600V	3A		
4 kW Model	Max. Voltage	Max. Current	Size (HxWxD)	Weight
ADC-0300133	30V	133A	88 x 430 x 500 mm	17kg
ADC-0400100	40V	100A		
ADC-0600067	60V	67A		
ADC-0800050	80V	50A		
ADC-1000040	100V	40A		
ADC-1200033	120V	33A		
ADC-1600025	160V	25A		
ADC-2400025	240V	25A		
ADC-3300012	330V	12A		
ADC-6000007	600V	7A		
8 kW Model	Max. Voltage	Max. Current	Size (HxWxD)	Weight
ADC-0300267	30V	267A	176 x 430 x 500 mm	30kg
ADC-0400200	40V	200A		
ADC-0600133	60V	133A		
ADC-0800100	80V	100A		
ADC-1000080	100V	80A		
ADC-1200060	120V	67A		
ADC-1600050	160V	50A		
ADC-2400033	240V	33A		
ADC-3300024	330V	24A		
ADC-6000013	600V	13A		

* all specifications are subject to change without notice.

SPECIFICATIONS

ADC Series (2kW - 8kW)

Capacity		2kW	4kW	4kW	8kW
INPUT					
Rated voltage ¹		187~253 Vac 1 Ø 2W+G		187~253Vac 1 Ø 2W+G or 187~253Vac 3 Ø 3W+G or 323~437Vac 3 Ø 3W+G	
current	Single-Phase 220VAC	17A	34A	-	68A ²
	three-Phase 220VAC	-	-	15A	30A
	three-Phase 380VAC	-	-	9A	18A
Frequency		47~63Hz			
OUTPUT					
Voltage		Please refer to the Specifications on page 76			
current		Please refer to the Specifications on page 76			
Ripple		<0.15%			
Voltage Adjustment		0~100% adjustable			
Current limit adjustment		10~100% adjustable			
Over-voltage adjustment		10% given value~110% given value adjustable			
Power adjustment rate		< 0.05% full scale			
Load adjustment rate		< 0.05% full scale			
Transient response time ³		< 1ms (load changes from 50% to 100% or from 100% to 50%)			
OTHER SPECIFICATION					
Efficiency (at rated input, max load)		>0.85		>0.89	
Circuit type		Switching power supply			
Protection function		Over voltage, over current, short circuit, over temperature			
Local control	Voltage meter	3 1/2digital meter (Option 4 1/2digital meter)			
	Current meter	3 1/2digital meter (Option 4 1/2digital meter)			
	Indicator light	Abnormal, external control, constant voltage, constant current			
	Pre-set	Output voltage, output current, output over current, reset			
Remote control	Compensation	0~3V			
	Control	Output voltage, output current 0~100% adjustable through external 0~5Vdc Voltage External control and reset			
	Monitor	Remote control to output voltage, output current from 0 to 100% through external 0~5Vdc voltage			
Environment	Operation temperature	0 ~ 50 °C			
	Storage temperature	-26 ~ 65 °C			
	Humidity	0~90% (non-condensing)			
	Cooling mode	Wind enter from the front and out in the back. Can be installed with rack from top to bottom.			
	Noise	< 55dB / 1m (fan speed control)			
Withstand voltage		Input to crust 2200Vdc/1min without arc /4mA			
Insulation Resistance		Input to crust 100M (500Vdc)			
Electromagnetic Compatibility(EMC)		Input EMI filter			
MECHANICAL SPECIFICATION					
Input mode		Terminal strips			
Output mode		Copper busbar			
Structure		19" 483 mm , xU rack type			
Dimension (H×W×D)		430 x 500 x 88mm	430 x 500 x 176mm	430 x 500 x 88mm	430 x 500 x 176mm
		16.9 x 19.7 x 3.5inch	16.9 x 19.7 x 7.0 inch	16.9 x 19.7 x 3.5inch	16.9 x 19.7 x 7.0inch
Weight		14kg	22kg	17kg	30kg
		30.86lbs	48.49lbs	37.47lbs	66.13lbs

*1 Please contact for other voltage specification.

*2 Height is 6U and weight is 50kg

*3 Load changes from 50% to 100% or from 100% to 50%

* Specifications for line regulation and load regulation are under full scales.

ORDERING INFORMATION :

ADC Series (2kW - 8kW)

Model Number	Description
ADC-0300067	Rack Mount DC Power Supply (2kW/30V/67A)
ADC-0400050	Rack Mount DC Power Supply (2kW/40V/50A)
ADC-0600033	Rack Mount DC Power Supply (2kW/60V/33A)
ADC-0800025	Rack Mount DC Power Supply (2kW/80V/25A)
ADC-1000020	Rack Mount DC Power Supply (2kW/100V/20A)
ADC-1200017	Rack Mount DC Power Supply (2kW/120V/17A)
ADC-1600013	Rack Mount DC Power Supply (2kW/160V/13A)
ADC-2400008	Rack Mount DC Power Supply (2kW/240V/8A)
ADC-3300006	Rack Mount DC Power Supply (2kW/330V/6A)
ADC-6000003	Rack Mount DC Power Supply (2kW/600V/3A)
ADC-0300133	Rack Mount DC Power Supply (4kW/30V/133A)
ADC-0400100	Rack Mount DC Power Supply (4kW/40V/100A)
ADC-0600067	Rack Mount DC Power Supply (4kW/60V/67A)
ADC-0800050	Rack Mount DC Power Supply (4kW/80V/50A)
ADC-1000040	Rack Mount DC Power Supply (4kW/100V/40A)
ADC-1200033	Rack Mount DC Power Supply (4kW/120V/33A)
ADC-1600025	Rack Mount DC Power Supply (4kW/160V/25A)
ADC-2400025	Rack Mount DC Power Supply (4kW/240V/25A)
ADC-3300012	Rack Mount DC Power Supply (4kW/330V/12A)
ADC-6000007	Rack Mount DC Power Supply (4kW/600V/7A)
ADC-0300267	Rack Mount DC Power Supply (8kW/30V/267A)
ADC-0400200	Rack Mount DC Power Supply (8kW/40V/200A)
ADC-0600133	Rack Mount DC Power Supply (8kW/60V/133A)
ADC-0800100	Rack Mount DC Power Supply (8kW/80V/100A)
ADC-1000080	Rack Mount DC Power Supply (8kW/100V/80A)
ADC-1200060	Rack Mount DC Power Supply (8kW/120V/60A)
ADC-1600050	Rack Mount DC Power Supply (8kW/160V/50A)
ADC-2400033	Rack Mount DC Power Supply (8kW/240V/33A)
ADC-3300024	Rack Mount DC Power Supply (8kW/330V/24A)
ADC-6000013	Rack Mount DC Power Supply (8kW/600V/13A)