

Rack Mount DC Power Supply

CE



The ADC Series is a Military/Aerospace DC Power Supply with robust circuit design and high stability. It is suitable for inductive type loads and aerospace or military applications, such as motor equipment, production testing, maintenance & repair, generators, aircraft engines, laboratories and etc.

ADC series has overload capability up to 300% and users can select between two output voltage: $28V \pm 10\%$ or $270V \pm 10\%$ (opt.). Its output power is up to 180kW and can deliver up to 1500A. There are two models of ADC series, trailer and stand-alone.

Product Features

- 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.

Output Power

2kW~8kW

Applications

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

QR Code



Product
Info.

High Power Density

2U / 2~4kW

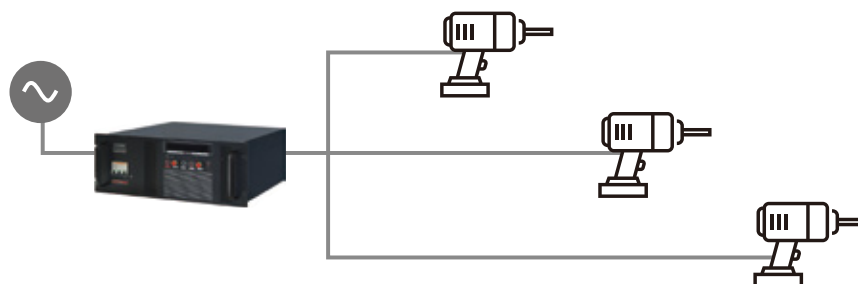


4U / 8kW



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 for Rated Voltage: 187~253Vac 3 Ø 3W+G or 323~437Vac 3 Ø 3W+G	17kg for Rated Voltage: 187~253Vac 3 Ø 3W+G or 323~437Vac 3 Ø 3W+G
ADC-0400100	40V	100A		
ADC-0600067	60V	67A		
ADC-0800050	80V	50A		
ADC-1000040	100V	40A		
ADC-1200033	120V	33A	176 x 430 x 500 mm for Rated Voltage: 187~253Vac 1 Ø 2W+G	30kg for Rated Voltage: 187~253Vac 1 Ø 2W+G
ADC-1600025	160V	25A		
ADC-2400017	240V	17A		
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 for Rated Voltage: 187~253Vac 3 Ø 3W+G or 323~437Vac 3 Ø 3W+G	30kg for Rated Voltage: 187~253Vac 3 Ø 3W+G or 323~437Vac 3 Ø 3W+G
ADC-0400200	40V	200A		
ADC-0600133	60V	133A		
ADC-0800100	80V	100A		
ADC-1000080	100V	80A		
ADC-1200060	120V	60A	264 x 430 x 500 mm for Rated Voltage: 187~253Vac 1 Ø 2W+G	45kg for Rated Voltage: 187~253Vac 1 Ø 2W+G
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	8kW	4kW	8kW
INPUT						
Rated Voltage ^{*1}		187~253 Vac 1 Ø 2W+G	187~253Vac 3 Ø 3W+G or 323~437Vac 3 Ø 3W+G		187~253Vac 1 Ø 2W+G	
current	Single-Phase 220VAC	17A	-	-	34A	68A
	three-Phase 220VAC	-	15A	30A	-	-
	three-Phase 380VAC	-	9A	18A	-	-
Frequency		47~63Hz				
OUTPUT						
Voltage		Please refer to the Specifications on page 112				
current		Please refer to the Specifications on page 112				
Ripple		<0.15%				
Voltage Adjustment		0~100% adjustable				
Current limit adjustment		0~100% 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 ^{*2}		< 1ms (load changes from 50% to 100% or from 100% to 50%)				
OTHER SPECIFICATION						
Efficiency (at rated input, max load)		>0.85	>0.9			
Circuit type		Switching power supply				
Protection function		Over voltage, over current, short circuit, over temperature				
Local control	Voltage meter	3 1/2digital meter				
	Current meter	3 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				
	Monitor	External control and reset				
Environ- ment	Operation temperature	0 ~ 50 °C				
	Storage tempetature	-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 100MΩ (500Vdc)				
Electromagnetic Compatibility(EMC)		Input EMI filter				
MECHANICAL SPECITICATION						
Input mode		Terminal strips				
Output mode		Copper busbar				
Structure		19" 483 mm , xU rack type				
Dimension (H×W×D)		88 x 430 x 500 mm		176 x 430 x 500mm		264 x 430 x 500 mm
		3.5 x16.9 x 19.7 inch		7.0 x 16.9 x 19.7 inch		10.3 x 16.9 x 19.6 inch
Weight		14kg	17kg	30kg		45kg
		30.86lbs	37.47lbs	66.13lbs		99.2lbs

*1 Please contact for other voltage specification.

*2 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)