

## 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

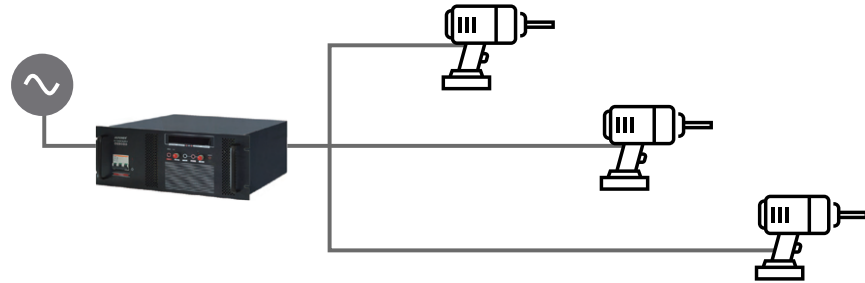
2U / 2~4kW

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 its 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		
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	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	8kW	4kW	8kW
<b>INPUT</b>						
Rated Voltage <sup>*1</sup>		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 <sup>*2</sup>
	three-Phase 220VAC	-	15A	30A	-	-
	three-Phase 380VAC	-	9A	18A	-	-
Frequency		47~63Hz				
<b>OUTPUT</b>						
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		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 <sup>*3</sup>		< 1ms (load changes from 50% to 100% or from 100% to 50%)				
<b>OTHER SPECIFICATION</b>						
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 (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				
<b>MECHANICAL SPECIFICATION</b>						
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 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)