

Military/Aerospace DC Power Supply

CE



The ADS 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.

ADS 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 ADS series, trailer and stand-alone.

Product Features

- Output voltage of $28V \pm 10\%$ or $270V \pm 10\%$ (opt.) for aerospace or military usage.
- Output current ranges from 50A to 1500A with maximum overload to 4500A.
- Capable to sustain abusive loads with inrush current and reverse current, such as aircraft engine or generators.
- Constant voltage and current limitation functions.
- Comprehensive protection includes over voltage, over current, over load, input under voltage and over temperature.

Output Power

50A~4500A

Interfaces

Option

RS-232

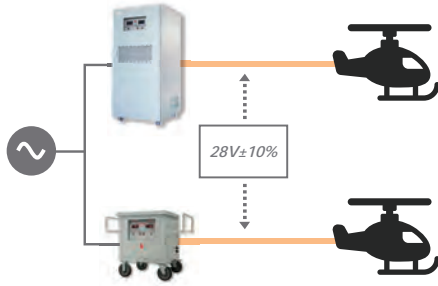
RS-485

GPIB

Applications

- Aerospace & Defense
- Aircraft
- Helicopter
- Aircraft Factory
- Hangar
- Repair Stations
- Transportation
- Industrial Power Supply

Ground Power Unit for Aircraft



ADS provides stable DC power and has 300% overload capability, which is an ideal ground power solution for the aircraft production and maintenance related industries.

Overload Capability



The ADS Series has robust circuit design and high stability. It is suitable for start up, repair and the production line of the inductive type loads, such as aircraft engine and compressor.

Highly Reliable

The ADS series is a SCR type of DC power supply. Utilizing industrial frequency transformer and advanced 6-pulse or 12-pulse rectifier topology, the ADS series offer clean and reliable DC power with full protections including OVP, OCP, OTP and short circuit protection. It is a DC power supply with features of high output power output, easy maintenance, high reliability and robust.

ORDERING INFORMATION :

ADS Series (1.5kW - 45kW)

Model Number	Description
ADS-28-50	Military/Aerospace DC Power Supply(1.5kW/28V/50A)
ADS-28-100	Military/Aerospace DC Power Supply(3kW/28V/100A)
ADS-28-200	Military/Aerospace DC Power Supply(6kW/28V/200A)
ADS-28-300	Military/Aerospace DC Power Supply(9kW/28V/300A)
ADS-28-400	Military/Aerospace DC Power Supply(12kW/28V/400A)
ADS-28-500	Military/Aerospace DC Power Supply(15kW/28V/500A)
ADS-28-600	Military/Aerospace DC Power Supply(18kW/28V/600A)
ADS-28-800	Military/Aerospace DC Power Supply(24kW/28V/800A)
ADS-28-1000	Military/Aerospace DC Power Supply(30kW/28V/1000A)
ADS-28-1500	Military/Aerospace DC Power Supply(45kW/28V/1500A)
ADS-001	300% Overload
ADS-002	RS-232 Interface
ADS-003	RS-485 Interface
ADS-004	GPIB Interface
ADS-005	Dry Contact Control

SPECIFICATIONS

ADS Series (1.5kW - 12kW)

Model	ADS-28-50		ADS-28-100		ADS-28-200		ADS-28-300		ADS-28-400		
Capacity	1.5kVA	4.5kVA	3kVA	9kVA	6kVA	18kVA	9kVA	27kVA	12kVA	36kVA	
Circuit Type	SCR										
INPUT											
Phase	3 Phase 3W+G (Δ) 3 Phase 4W+G (Y)										
Voltage	220V/380V ^{*1}										
Voltage Range	$\pm 10\%$										
Frequency	50Hz ± 3 Hz or 60Hz ± 3 Hz										
OUTPUT											
Voltage	28VDC $\pm 10\%$ Adjustable (25.2VDC ~ 30.8VDC)										
Rate Current	0~50A		0~100A		0~200A		0~300A		0~400A		
Overload Capacity	None	150A	None	300A	None	600A	None	900A	None	1200A	
Current-limiting adjustable	5~50A	15~150A	10~100A	30~300A	20~200A	60~600A	30~300A	90~900A	40~400A	120~1200A	
Line Regulation	$\leq 0.5\%$										
Load Regulation	$\leq 0.5\%$										
Ripple(Vrms)	$\leq 1\%$										
INDICATOR											
Digital Voltmeter	28.0 V										
Digital Ammeter	50.0 A	150.0 A	100.0 A	300.0 A	200.0 A	600.0 A	300.0 A	900.0 A	400.0 A	1200.0 A	
Protection	Over-Voltage; Over-Current; Over-temperature; Short-circuit protection										
Cooling System	Air Forced Fan										
Environment	-20°C ~ +45 / 500meter(Altitude) / Prevent against dust and dust from carbon bush										
Humidity	0~90% (Non-condensing) Continuous working										
Resistance	$\geq 10M\Omega$ (500Vdc)										
Withstand voltage	1500Vac 10mA/1min										
Noise	< 65dB										
Remote Monitoring	Adjust output voltage range from 0~100% via 0~5Vdc external control. (option)										
DIMENSION											
Trailer	H x W x D (mm/ inch)	880 x 1198 x 760 / 34.64 x 47.16 x 29.92									
Stand-Alone	H x W x D (mm/ inch)	1605 x 750 x 835 / 63.18 x 29.52 x 32.87									
WEIGHT											
Trailer	(lbs / kg)	507/230	660/300	570/260	728/330	660/300	815/370	728/330	882/400	794/360	948/430
Stand-Alone	(lbs / kg)	330/150	400/180	375/170	441/200	441/200	530/240	507/230	661/300	595/270	728/330

*1 Other required voltage, please kindly refer to Form 1.

*No compensating function.

*Custom-made specifications are on request.

*Outlook: F-Free standing type, T-Trailer type, B-Bridge mounted type, W-Wall mounted type.

*One year warranty.

*All specifications are subject to change without prior notice.

SPECIFICATIONS

ADS Series (15 kW - 45 kW)

Model	ADS-28-500		ADS-28-600		ADS-28-800		ADS-28-1000		ADS-28-1500		
Capacity	15kVA	45kVA	18kVA	54kVA	24kVA	72kVA	30kVA	90kVA	45kVA	135kVA	
Circuit Type	SCR										
INPUT											
Phase	3 Phase 3W+G (Δ) 3 Phase 4W+G (Y)										
Voltage	220V/380V ^{*1}										
Voltage Range	$\pm 10\%$										
Frequency	50Hz ± 3 Hz or 60Hz ± 3 Hz										
OUTPUT											
Voltage	28VDC $\pm 10\%$ Adjustable (25.2VDC ~ 30.8VDC)										
Rate Current	0~500A		0~600A		0~800A		0~1000A		0~1500A		
Overload Capacity	None	1500A	None	1800A	None	2400A	None	3000A	None	4500A	
Current-limiting adjustable	50~500A	150~1500A	60~600A	180~1800A	80~800A	240~2400A	100~1000A	300~3000A	150~1500A	450~4500A	
Line Regulation	$\leq 0.5\%$										
Load Regulation	$\leq 0.5\%$										
Ripple(Vrms)	$\leq 1\%$										
INDICATOR											
Digital Voltmeter	28.0 V										
Digital Ammeter	500.0 A	1500.0 A	600.0 A	1800.0 A	800.0 A	2400 A	1000.0 A	3000 A	1500.0 A	4500 A	
Protection	Over-Voltage; Over-Current; Over-temperature; Short-circuit protection										
Cooling System	Air Forced Fan										
Environment	-20°C ~ +45 / 500meter(Altitude) / Prevent against dust and dust from carbon bush										
Humidity	0~90% (Non-condensing) Continuous working										
Resistance	$\geq 10M\Omega$ (500Vdc)										
Withstand voltage	1500Vac 10mA/1min										
Noise	< 65dB										
Remote Monitoring	Adjust output voltage range from 0~100% via 0~5Vdc external control. (option)										
DIMENSION											
Trailer	H x W x D (mm / inch)	970 x 1355 x 930 / 38.18 x 53.34 x 36.61							-		
Stand-Alone	H x W x D (mm / inch)	1355 x 600 x 980 / 53.34 x 23.62 x 38.58					2060 x 1180 x 1060 / 81.1 x 46.45 x 41.73				
WEIGHT											
Trailer	(lbs / kg)	882/400	1036/470	926/420	1080/490	992/450	1168/530	1080/490	1280/580	1213/550	1433/650
Stand-Alone	(lbs / kg)	640/290	772/350	728/330	838/380	816/370	1058/480	992/450	1102/500	1124/510	1390/630

*1 Other required voltage, please kindly refer to Form 1.

*No compensating function.

*Custom-made specifications are on request.

*Outlook: F-Free standing type, T-Trailer type, B-Bridge mounted type, W-Wall mounted type.

*One year warranty;

*All specifications are subject to change without prior notice.