

AP14G01K2282-XX Power Supply & Battery Charger

Overview

AC-DC Power Supply and Battery Charger, Water Resistant (Sealed Enclosure), Single Phase AC 50 - 60Hz (85 to 264Vac), +28 Output, 1200W

Market(s)

Defense, Industrial

Typical Application(s)

Outdoor, vehicles, naval and others.

Product Highlights

AP14G01K2282 is an AC/DC power supply & battery charger with nominal output of 28 VDC / 72 Amp, reliable construction and electronics, and is best suited for harsh environments. Waterproof housing, high performance and superb reliability make the AP14G01K2282 the ideal DC power source for use in vehicles, naval, open air applications and many others. In comparison to other power supplies using conventional technology, this package provides users with high efficiency (85/88%), low weight, and high power output.



Features

- AC 85-264 VAC wide-input range.
- 1,200w 28VDC two channels power supply.
- Ruggedized & waterproof (IP 65 / 67).
- Extreme operating temps -40°C to +60°C.
- 100% convection cooling, no external or internal fans required.

Table 1: Maximum Continuous Operating Ratings

Parameter	Rating	Unit	Notes
Vin max range	85 to 264	Vac	Line to Neutral
Temperature	-40 to +60	°C	-40 to +100 Non-operating
Input Power	1395	W	(115Vac)
Output power	1200	W	Continuous
Max output	1200	W	

About Us

Aegis Power Systems, Inc. specializes in the design, development, and manufacture of AC-DC and DC-DC power supplies for high-performance, rugged, critical, and specialty applications. Markets served include defense, industrial, communications, aircraft, shipboard, rack mount, embedded computing, and electric vehicle applications. Contact us to find out if this item can be configured or redesigned to meet your specific technology need.

SPECIFICATIONS

(Typical at 25°C, nominal line and 100% load, unless otherwise specified.)

Input Voltage	85Vac - 264Vac, 50Hz, 60Hz
Input Current	12A / 6A (115 / 230Vac at 43Amps output power)
Power Factor	0.99 / 0.96 at 115 / 230Vac
Output Power	1200W
Output Specs	See table 2 for details
Efficiency	86%@ 115Vac, 89%@ 230Vac, Typ. at 28V at 43A
Output Ripple	See Table 2.
Current Limit	20A for each output (by Circuit breaker)
Temperature	-40°C to +60°C Operating
Derating	34W/°C at 230Vac: +55°C to +80°C 21W/°C at 115Vac: +55°C to +60C
Cooling	Convection Cooling
Package	Enclosed case IP65/67 rated.
Dimensions	13.38" L x 6.3" W x 7.87" H
Weight	20lbs. maximum
Connectors	See Table 3
Shock and Vibration	MIL-STD-810G
Ingress Protection	IP65/67
EMI	MIL-STD-461F
Country of Origin	Israel

Specifications subject to change without notice.

Table 2: Voltage Output (Nominal)

AP14G01K2282	
Voltage	+28Vdc
Current	43A Continuous
Power	1200W
Ripple	150mVpk-pk*

* 20MHz Bandwidth Limited.

Table 3: Connector Specifications

AP14G01K2282 Accessory	
01K228CB-IN	Input Cable
01K228CB-OT	Output Cable
01K228CN-IN	Input Mating Connector
01K228CN-OT	Output Mating Connector

Dimensions

