

AP14G02K0282-XX Power Supply & Battery Charger

Overview

AC-DC Power Supply and Battery Charger, Water Resistant
Single Phase AC 50 - 60Hz (85 to 264Vac), +28 Output, 2000W
(2200W Max for 5 minutes)

Market(s)

Defense, Industrial

Typical Application(s)

Outdoor, vehicles, naval and others.

Product Highlights

AP14G02K0282 is an AC/DC power supply & battery charger with nominal output of 28 VDC / 72 Amp., with reliable construction and electronics best suited for harsh environments. Waterproof housing, high performance and superb reliability make the AP14G02K0282 the ideal DC power source for use in vehicles, naval, open-air applications and many others. This unit provides users with 85/88% efficiency, rugged performance, and high power output.



Features

- AC 85-264 VAC wide-input range.
- 2,000w 28VDC two channels power supply.
- 10% bonus power (2,200w) for up to 5 min.
- 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	2415	W	(115Vac)
Output power	2000	W	Continuous
Max output	2200	W	Short Term (5min)

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	21A / 10A (115 / 230Vac at 72Amps output power)
Power Factor	0.99 / 0.96 at 115 / 230Vac
Output Power	2000W, 2200W Short Term Maximum
Output Specs	See table 2 for details
Efficiency	85@ 115Vac, 88@ 230Vac, Typ. at 28V at 72A
Output Ripple	See Table 2.
Current Limit	40A 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	18.82" L x 7.6" W x 11.14" H
Weight	44lbs. 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)

AP14G02K0282	
Voltage	+28Vdc
Current	72A Continuous
Power	2016W
Ripple	90mVpk-pk*

* 20MHz Bandwidth Limited.

Table 3: Connector Specifications

AP14G02K0282 Accessory	
02K028CB-IN	Input Cable
02K028CB-OT	Output Cable
02K028CN-IN	Input Mating Connector
02K028CN-OT	Output Mating Connector

Dimensions

Dimensions 283x193x478mm WxHxD
Weight 20Kg / 44lbs

