



MPS28-300P Mini Power Supply

FEATURES

- Converts 28VDC to 115VAC 60 Hz Output (Modified Sine Wave)
- Lightweight, Compact, and Portable
- Easy access user replaceable fuse
- 300VA continuous output
- 500VA peak power for 5 minutes
- Battery Low / Low Voltage alarm and shutdown
- Overload protection
- Short Circuit protection
- 1 year warranty

BASIC OPERATION

- Plug MPS28-300P into the cigarette lighter plug. Ensure the power switch is turned OFF.
- Turn the power switch ON and confirm the power indicator light is on.
- Plug your A/C powered device into outlet plug.
- Unplug the MPS28-300P when starting engine(s).
- Unplug the MPS28-300P when not in use.
- The MPS28-300P will beep when input drops below 22 VDC.
- The MPS28-300P will shut down when input drops below 21 VDC.
- Do not use any extension cables on the input side. Extension cables on the output side should be limited to 10 feet.
- When running an A/C powered device that has a high initial current draw such as a TV or monitor, the MPS28-300P overload protection function will activate and shut down the system. Attempt to switch the device on and off every 2-3 seconds several times. If the device does not stay on after several attempts the initial current draw is too great.

When measuring the output of the MPS28-300P a True RMS voltage meter must be used.

SPECIFICATIONS

Input Voltage	28VDC (Nominal)
Input Voltage Range	22-30VDC
Standby Input Current	0.4A
Output Voltage	115 VAC
Output Frequency	60 Hz
Output Waveform	Modified Sine Wave
Output Power, Continuous	300 VA
Output Power, Peak	500 VA (5 minutes)
Output Power, Surge	400 VA
Efficiency	90%
Battery Low Alarm	22 VDC +/- 0.5 VDC
Battery Low Shutdown	21 VDC +/- 0.5 VDC
Thermal Protection	176°F / 80°C
Overload Protection	Yes
Short Circuit Protection	Yes
Dimensions (L x W x H)	5.90" x 4.13" x 1.77" / 150 x 105 x 45 mm
Weight	1.76 lbs / 800 g

All specifications typical at normal line half load at 77°F / 25° C.

TROUBLE SHOOTING

PROBLEM	SUGGESTED ACTION
No Power Out	Ensure cigarette lighter plug is firmly plugged into receptacle, power switch is on and power LED is on.
No Power Out	Check fuse located on front of unit. Replace if necessary.
No Power Out	Check aircraft fuse or breaker. Reset, repair or replace if necessary.
Thermal Shutdown	Due to heavy load and long running time. Turn unit off and wait for MPS28-300P to cool down. Remove the device causing the overload.
Voltage Low Shutdown	Recharge battery. Measure output