

Tactical Universal AC to DC Power

AC-DC, 100-253VAC to 28VDC, 25 Amps, 700W



The Espey Tactical Power Supply provides regulated 28VDC power from any AC power source in the range of 100-253VAC, 47-420 Hz. It is ideally suited for powering dismounted tactical vehicle systems in anywhere AC power is available. The sealed mechanical design provides protection for the electrical components against dust, water immersion and external environmental factors

Features

- Designed for minimum size and weight to obtain maximum reliability and performance
- Rain proof, immersion proof, fully sealed enclosure
- Natural convection cooling
- Universal AC Input
- Adjustable output voltage with remote sense capability
- 28V backup battery input with seamless changeover upon loss of AC power
- MIL-STD-810 ground mobile environment
- Class B NVIS compatible meters and indicators



Specifications:

Designed to meet requirements of MIL-PRF-49080D

NSN: 6130-01-624-6766

Electrical Output Ratings

Output voltage	28 VDC
Regulation	+/-1%
Output voltage adjustment	24-32VDC
Voltage ripple	2%max (1A to full load)
Output current	25 Amps
Output power	700W
Efficiency	85% typical

Electrical Input Ratings

Input voltage	100-253 VAC single phase
Input frequency	47-420 Hz
Surge immunity	+/- 2kV line-to-line and line-to-ground
Emergency DC input	28 VDC Nominal Battery

Safety/Performance Features

Current limiting	30Amps Automatic with AC and DC breakers
Isolation	Isolation input to output, input to chassis and output to chassis
Over voltage, over current and over temperature protection	
Remote voltage sense compensates for up to 2V drop in cables	
Output voltage and current digital meter display status and fault LEDs all Class B NVIS compatible	
Automatic power changeover to emergency DC input when AC Input drops below 100VAC. Output becomes a pass through of DC emergency input voltage	

EMI/EMC

MIL-STD-461-F, CE101, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS103 ground vehicle
MIL-STD-1275D input spike and surge protection
IEC 61000-4-2 ESC, IEC61000-4-5 Surge Immunity

Mechanical/Environmental

Size and weight	14.0 x 5.4 x 12.5 (in. W x H x L) 16.8 Lbs.
Degree of enclosure	Sealed enclosure MIL-STD-810 Method 512 Procedure I immersion
Operational temperature	-40°C to +66°C
Storage temperature	-62°C to +71°C
Connectors	Circular mil type PT07C14 and M55181 series connectors
Vibration	MIL-STD-810, method 514, Procedure I, category 4 restrained cargo
Ballistic Shock	MIL-STD-810, method 522, Procedure VI
Humidity	0 to 100% Condensing MIL-STD-810 Method 507 Procedure 2
Altitude	40,000 ft. operating
Coating	Lusterless Green 383 CARC iaw MIL-DTL-64159