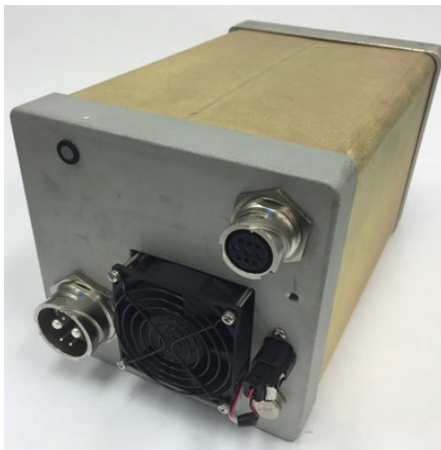


Model #: MS-28-120AC-2500

2.5 KW DC-AC Inverter, 24VDC to 120VAC, 21 Amps



High quality AC power designed for rugged commercial and military vehicle use. The Espey MS-28-120AC-2500 inverter provides safe reliable power with no derating up to 50C ambient temperature. A sealed enclosure and waterproof fan allow for meeting fording and wash down requirements while also preventing electrical hazards in the event of water exposure.

Features

- Demonstrated performance in military ground mobile operations ensures reliability in military and ruggedized commercial applications.
- IP67 (dust tight, 1 meter water immersion) enclosed with forced air cooling (sealed wind tunnel design)
- Simple automatic fully operational start-up within 5 seconds when input voltage is applied. Optional engine start delay (Avoids inverter load on battery until after engine is started)
- AC output connector Interlock (allows operation only when AC output connector is mated)
- Configurable for isolated or grounded neutral output
- Tested for off-road mobile environments
- Output short circuit protected
- Automatic recovery from output overload or short circuit

Specifications:

Electrical Output Ratings

Output power	2.5kVA
Peak output power	115% 5 sec
Output voltage	120 VAC nominal
Output THD	3% max
Load Regulation	5%
Output frequency	60 +/- 0.5 Hz
Power factor	up to 0.70
Crest factor	up to 2.5
Efficiency	>80% Nominal

Electrical Input Ratings

Nominal input voltage	28vdc
Input voltage range	20-33vdc
Input protection	Input spike and surge protected

Safety/Performance Features

Isolation	> 1 MegOhm input to chassis and output
Hi-pot	500VDC output to input
Reverse input polarity – keyed connector/proper wiring required.	
Over voltage, over current and over temperature protection	
Fault indication LED	
Grounded or ungrounded neutral	

EMI/EMC

MIL-STD-461-F, CE102, CS101, CS114, CS116, RE102, RS103 ground vehicle. (with use of shielded cables)	
MIL-STD-1275D input spike and surge protection	

Mechanical/Environmental

Size and weight	8.9 x 8.5 x 15.4 (in. W x H x L) 38 Lbs.
Degree of enclosure	IP-67 sealed enclosure
Operational temperature	-46°c to +50°c
Connectors	Circular mil Amphenol GT series
Vibration	MIL-STD-810g, method 514.6, Procedure i, annex c, category 4.
Shock	MIL-STD-810g, method 514.6, Procedure v, crash hazard shock.
Humidity	20-100% RH condensing
Storage temperature	-40°c to +85°c
Coating	conversion coating, MIL-DTL-5541, type 1, class 1a (CARC paint optional)

Document Revision: R8, Subject to change without notice