

MIL Grade – 750W Rectifier

AJN-48V-750W-1P

Overview:

- This 750W AC-DC Rectifier is a military-grade product which can take single-phase, 3-wire AC as input and supply 750W power at -48VDC to the load
- It can be mounted on mobile platforms and be operated under harsh outdoor conditions
- It features a fan-less design architecture with built-in short-circuit protection, over-voltage protection, overcurrent protection and a thermal shutdown protection
- It conforms to Environmental specification as per JSS 5555:2020 Rev-4L3 category
- It is ROHS compliant and also complies with the Safety EN/IEC 62040-1 or equivalent standard
- It is designed to support MIL 461 F/G (Army) EMI/EMC standards and also with the Surge Protection IEC/EN 62040-2 or equivalent standard

	Parameters	Specifications
Input	Input voltage	230V AC, 1 phase, 3-wire
	Input voltage range	185V to 265V AC @ 100% load
	Frequency	50Hz +/- 3Hz
	Input power factor	0.95 or better @ full load
	Input voltage distortion	5% or better
Output	Load output voltage	48V DC
	Output voltage range	-45V to -56V DC
	Rated current	15A
	Rated power	750W
	Line regulation	<=2% or better
	Load regulation	<=2% or better
	Ripple & noise	200m Vp-p
	Rated power factor	0.9 or better
	Efficiency	>= 80%
	Isolation	Input to Output
	Cooling	Conduction
Protections	DC O/P overload	
	AC I/P overvoltage	
	AC I/P under voltage	
	DC O/P over voltage	
	DC O/P under voltage	
	I/P overcurrent protection	Permanent tripped
	Unit over temperature	>=75° & < 90° - Permanent tripped
	DC O/P short circuit protection	Permanent tripped
Withstand Voltage	Between AC I/P & O/P Voltage	3kV AC
	Between AC I/P & Earth	2kV AC
	Between voltage O/P & Earth	5kV AC
Isolation Resistance	Between AC I/P & O/P voltage	>100M Ohms / 500V DC
	Between AC I/P & Earth	>100M Ohms / 500V DC
	Between voltage O/P & Earth	>100M Ohms / 500V DC
	Over Temperature	+105°C +/- 5°C shutdown, recovery at 95°C +/-5°C
Physical Dimensions	Height	Max 1U
	Width x Depth	< 200mm x < 300mm
	Weight	Max 5Kg

Note: The technical data present in this document is for information purpose only and is subject to change without prior notice. Should you require more information, please reach us at info@zepcotek.com