

Magnizon Rectifier Module

Product Description

R481200 is a digitalized rectifier module with outstanding reliability and it is capable of delivering 1200W of DC power at standard 48V DC (positive grounding compatible for Telecom solutions) with maximum current supply of 25Amp continuous.



Applications

- Fiber optic network and data room
- Wireless communications
- Broad band and network access
- Telecom roadside cabinets
- Satellite communications ground stations
- BTS 4G/5G Base station
- Manufacturing industry

Key Feature

- Nominal AC input: 85Vac ~ 300Vac
- Wide Working Temperature range: -40°C ~ +85°C
- Active power factor correction: PF ≥ 0.99
- Fan speed control design
- Output terminal with hot plug connector.
- High efficiency and highest power density (Typical: 93.7%, Maximum: 94.5%, 50W/in³ power density)
- Digitalized Control: Digitalized primary and secondary controls could realize excellent monitoring and regulation
- High Reliability Design: Fan front to back air flow with latest thermal solution and experienced electric synthesize ensure suitable working environment and high reliability
- Disconnects input Mains when hazardous
- Excellent EMC performance
- Lower interference and excellent susceptibility gives module more reliable.

Compliance standards

- ISO9001:2015, ISO14001:2015, RoHs, CE
- Electrical Safety: IEC60950/ UL60950, EN55022 Class B (emission)
- EMC: IEC61000-4-2/3/4/5/6, IEC61000-4-11
- Harmonics: IEC61000-3-2, IEC61000-3-3

R481200

Specifications

Item	R481200
ENVIRONMENTAL REQUIREMENTS	
Working temperature	-40°C~+85°C
Storage temperature	-40°C~ +85°C
Humidity RH	≤95% RH
AC INPUT	
Voltage (V)	85Vac ~ 300Vac
Current (A)	≤7.5Amp
Frequency	45Hz ~66Hz
Power factor	≥0.99
DC OUTPUT	
Efficiency	>97.8% Peak
Voltage range	-42.0Vto-58.0VDC
Rated Power	1200W
Load regulation	≤±0.5%
Voltage regulation factor	≤±0.1%
Noise Voltage (mV)	≤2 (Balance weight)
	≤200 (Peak-peak)
	≤50 (3.4~150kHz)
	≤20 (0.15~30MHz)
DC OUTPUT	
Error in load sharing	≤±5%
Precision of voltage regulation	≤±0.6%
Protective function	Input overvoltage, under-voltage
	output overvoltage, overload, short circuit, over-temperature and fan failure
Cooling-down method	Speed air cooling
Electrical Safety	IEC60950 UL60950
EMC	EN55022 Class B (emission)
	IEC61000-4-11
	IEC61000-4-2 (electrostatic discharge)
	IEC61000-4-3 (Radiated immunity)
	IEC61000-4-4 (Fast transient)
	IEC61000-4-5 (Surge immunity)
	IEC61000-4-6 (Conducted immunity)
Harmonics	IEC61000-3-3
	IEC61000-3-2
Environment	ETSI EN 300 019-2 (-1, -2, -3)
	ETSI EN 300 132-2
	TELCORDIA NEBS GR63 CORE ZONE H
	RoHS Compliant
Certificate	CE

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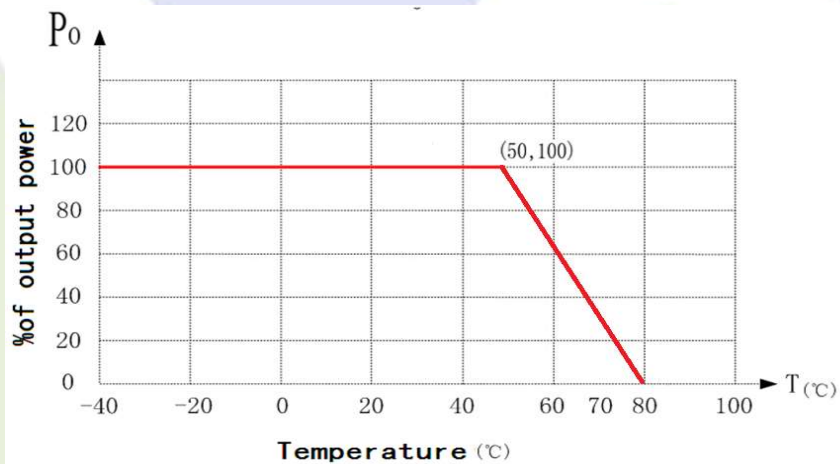
Quality standards	ISO9001:2015, ISO14001:2015, RoHs
Dimensions (mm) (W×D×H)	70.3×253×42.5
Weight (Kgs)	0.9kgs

Indicator functional specification

Indicator	Normal	Anomaly	Abnormal cause
Working indicator (green LED)	On	Off	The power supply is not working
		Flashing	The control module operates the rectifier module
Alarm indicator (yellow LED)	Off	On	AC input overvoltage, under voltage, short circuit, over temperature
		Flashing	Communication interrupt
Fault indicator (red LED)	Off	On	Rectifier module fault, PFC output overvoltage
		Flashing	Rectifier module fan fault

Characteristic Curve of Rectifier Module

Output Power-Ambient



Output Current -Input Voltage

