

Rectifier

AP-P4000DM A1-120

Description

The AP-P4000DM A1-120 is a single phase rectifier with outstanding efficiency and power density. Beside the energy saving by power conversion, the extended temperature range support significant additional energy saving opportunity for the site cooling. The wide input voltage range and inbuilt AC overvoltage protection make this product very robust for regions with difficult AC utility quality. The powerful rectifier provides the necessary power for fast Electric vehicle battery charging in emerging markets with the best possible system configuration.

Installation is simplified as all Delta rectifiers have their connectors at rear and are hot-pluggable. Fan cooling with speed control ensures near silent operation.

The advantages of the product are the compactness for applications requiring medium to high power.

Main features

- Energy saving – leading edge efficiency
- Advanced energy saving functionality
- Space savings – leading edge power density up to 24kW / 350 A per 23in shelf
- Wide AC input voltage range
- Protection against loss of Neutral and AC overvoltage
- Extended operating temperature range

Applications

AP-P4000DM A1-120 is used in for:

- Electric Vehicle Battery Charger



Delta rectifiers are market leaders in power density offering solutions for compact space and weight requirements. In addition to that, the highest efficiency ensures lower total energy consumption and leads to smaller environmental footprint.

Rectifier

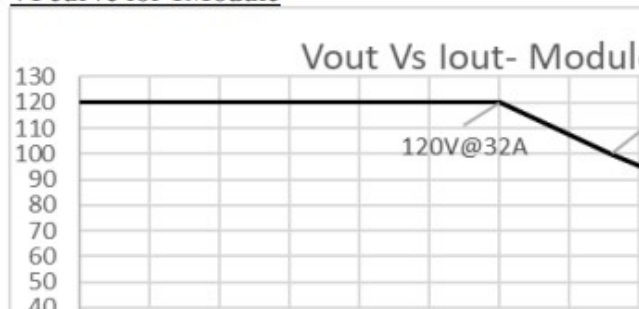
AP-P4000DM A1-120

Technical specifications

1. Input	
Mains voltage	80 - 300 Vrms
Mains frequency	50 / 60 Hz
Harmonic distortion (THD)	5 %
EMI (conducted)	EN 55022, class A
Protection	Internal fuse 2 x 30 A
AC over voltage protection	Incl. loss of neutral

2. Output	
Nominal system voltage	72 V
Operating voltage range	42 - 120 V
Power limitation	3850 W
Nom. Current	50 A
Current limitation	50 A
Overvoltage protection	Yes
Load sharing	Yes
Protection	Internal fuse

VI curve for 1Module



Ordering information	
Description	Model Name: AP-P4000DM A1-120 P.No: AP-P4000DM A1

3. General	
Efficiency	93 %
Power density	27.3 W/in ³
Control and monitoring	1. RECTIFIERS IMBUS CONTROL INTERFACE* (Not recommended for new design) 2. REBUS Protocol (Upcoming)
User interface	Output current display Status indication
Dimensions (W x H x D)	82 x 86.9 x 377.9 mm 3.23 x 3.43 x 14.88 in
Weight	3.5 kg 7.7 lb
Standards	<ul style="list-style-type: none"> Safety: EN / IEC 60950, UL 60950, CAN / CSA - C22.2 EMI (radiated): EN 55022, class A Environment: RoHS compliant
Cooling	Fan cooled
Acoustics	50 dB (A)
Operating temperature	-45 to +70 °C -49 to +158 °F

Subject to change without notice.



Contacts:

Delta Electronics India Pvt. Ltd.
www.deltaelectronicsindia.com

emobility@deltaww.com