1800W Dual Output Open Frame Module

EMA1800D-A

This specification defines the performance characteristics and functions of 1800 watts open frame power supply with Active PFC (Power Factor Correction) and PMBus (Power Management Bus). EMA1800D-A support 1+1 operation.

FEATURES

- Efficiency (Typ.): 91% at 230Vac full load
- Active Power Factor PF≥ 0.95
- Power Good Signal
- UVP/OVP/OCP/SCP/OTP ready
- MTBF > 200,000 hours at 25°C typical load
- Operation Altitude: 5000 meters
- Surge Protection: 4KV(L/N-PE) and 3KV(L-N)
- 1+1 Redundant Design and Support "Group Load Sharing"
- Can withstand 300Vac Input Voltage for 1 minute
- PoE Isolation
- Meet IEC62368-1

INPUT SPECIFICATIONS

- Input Voltage: 90-264Vac
- Operation Voltage: 100-240Vac
- Input Frequency: 47-63Hz
- Input Current: 10A/230Vac at 1800W load, 4A/100Vac at 1050W load
- Inrush Current: 30A peak @115Vac,50A peak @230Vac. Cold start at full load

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OUTPUT RATING

Input Voltage	Output	Min. Current	Max. Current	Ripple Noise	Power Output
100-120Vac	+12V	0.1A	22A	240mV	1050W
	+54.5V	0.1A	15.6A	Note 2	
	12VSB	0.1A	2.0A	240mV	
200-240Vac	+12V	0.1A	22A	240mV	1800W
	+54.5V	0.1A	29.4A	Note 2	
	12VSB	0.1A	2.0A	240mV	

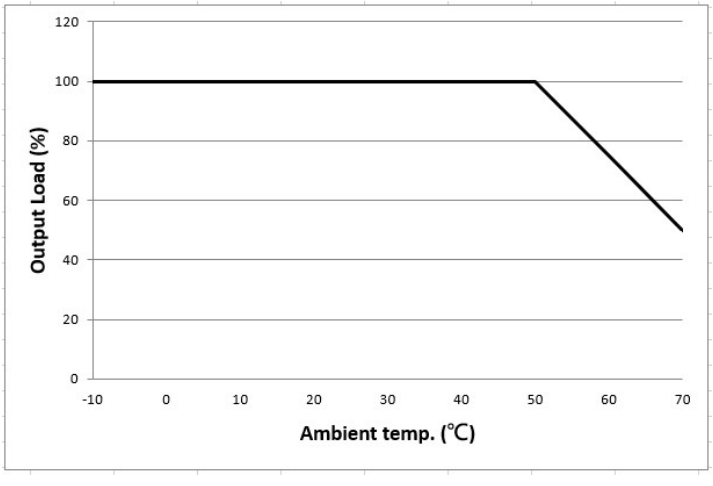
Note 1: Ripple noise is measured at 20MHz of bandwidth. The measured terminal is paralleled with a 47uF low ESR E-cap and a 0.1uF Ceramic cap.

Note 2: <500Hz Vp-p=500mV; 500 Hz to 150 kHz Vp-p=200mV; 150 kHz to 500 kHz. Vp-p=150mV;500 kHz to 1MHz Vp-p=100mV

GENERAL SPECIFICATIONS

- Hold-up time: ≥12ms at 70% load
- MTBF: 200Khrs min SR332(25°C) at full load
- Dimension (L x W x H): 220 x 104.5 x 41mm
- Operating altitude: 16,404 ft (5000M)
- Working temperature: -10°C to 70°C
- Storage temperature: -40°C to 80°C
- Working humidity: 20% to 90% RH non-condensing
- Storage humidity: 5% to 95% RH non-condensing
- Forced air cooling (Min.): Over 27CFM. (04028DA-12T-AKH-G*2) at Max. load

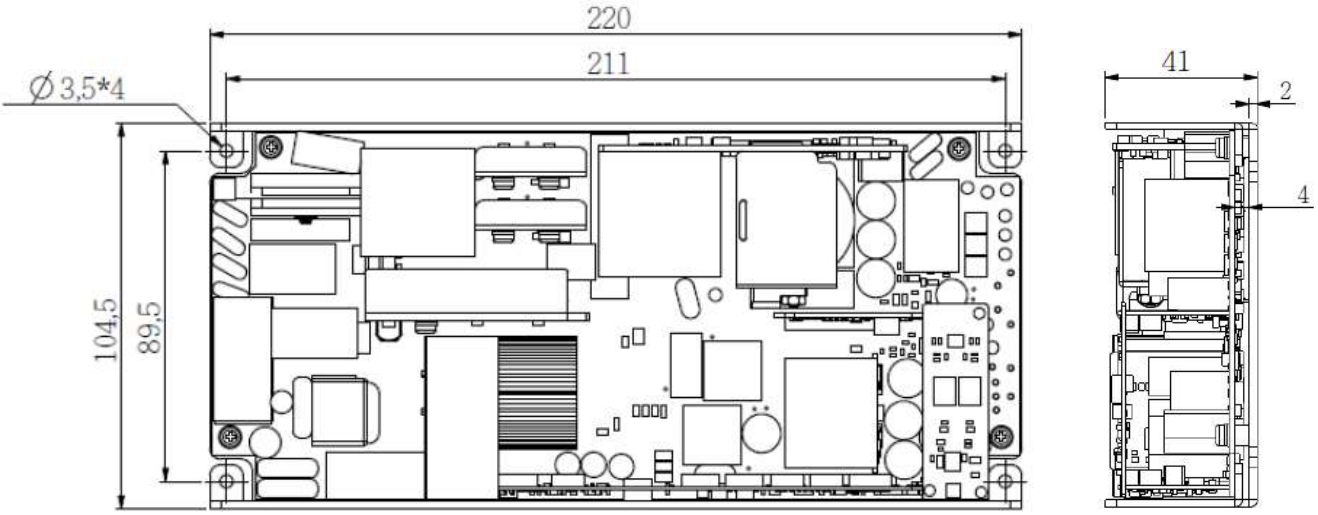
OUTPUT LOAD DE-RATING CURVE



MECHANICAL SPECIFICATIONS

Unit: mm

220(L) x 104.5(W) x 41(H)



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