

RPM-130-AC Series

➔ 130Watts single output industrial chassis power supply

Features

- Universal power input support 100 to 240VAC
- High power conversion efficiency
- Supports over voltage protection
- Continuous short circuit protection
- Supports over temperature protection
- Active PFC for EN61000-3-2 class A & D compliance
- MTBF 400Khrs



Application



Airflow Direction

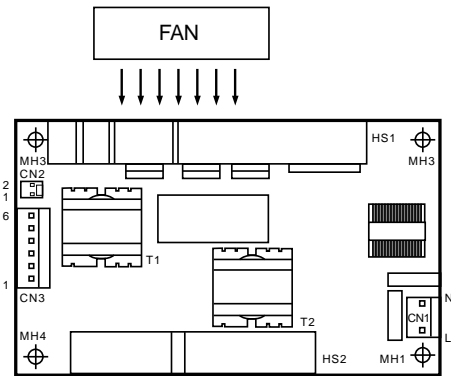
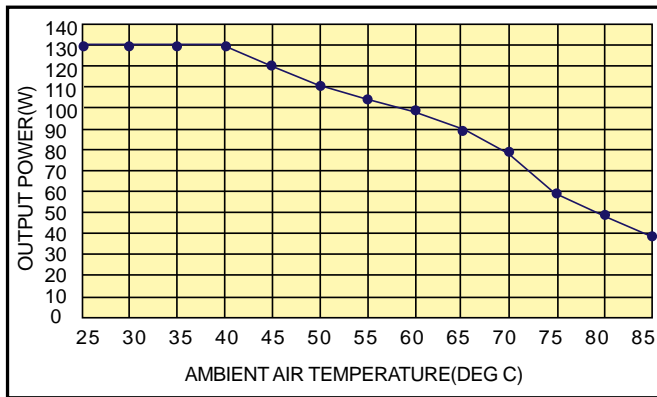


Figure 2: Out power vs Temperature with Forced Air Cooling with Airflow Direction From HS1 to HS2 Vin=90Vac

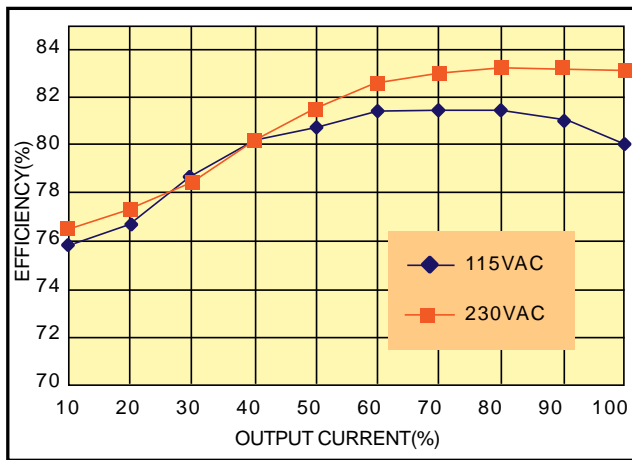
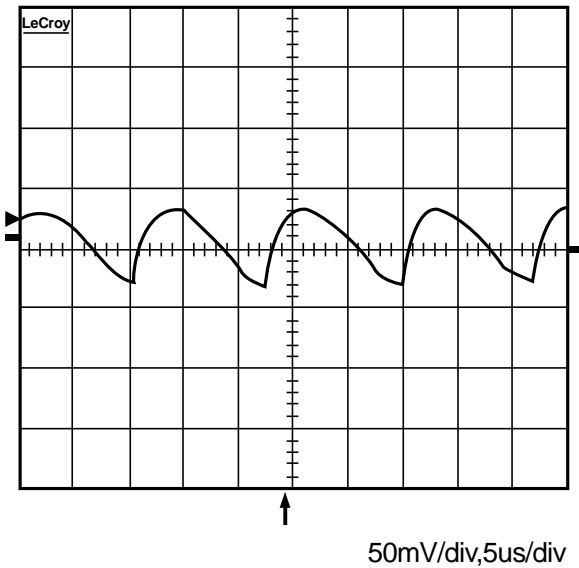


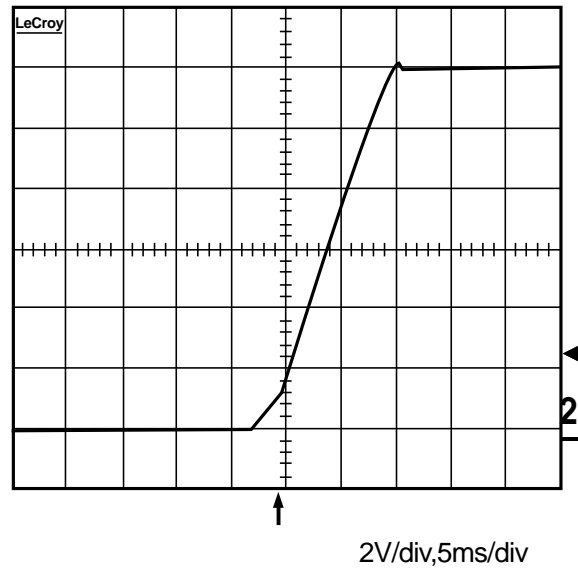
Figure 3: Efficiency vs Load (Vo=12V)

Performance

1. Output Ripple



2. Output turn on wave form



Specifications

O/Ring Chassis Power Supply Model	RPM-130-AC_US/EU
Physics	
Power	Single output with maximum 130Watts (cooling fan included)
Input Requirements	
Operating Voltage Ranges	100 ~ 240VAC
Line Frequency Range	47 ~ 63 Hz
Steady Current	3.3 Arms max
Inrush Current (cold start 25oC)	80A max
Leakage Current (DC-DC exclude)	3.5mA max
Output Requirements	
Specified O/P Voltage	12VDC
Current	Max. : 10.8A
Ripple & Noise	120mV
Line Regulation	+1% ~ -1%
Load Regulation	+1% ~ -1%
Protection Requirements	
Over-Voltage Protection	+14.5V / -2.5V
Over-Temperature Protection	130oC (typical)
Over-Current Protection	10.8 ~ 21.6A
No Load Operation	Present
Short Circuit Protection	Present
General Requirements	
Efficiency	80% (typical)
Hold-Up Time	20ms (typical)
Temperature Coefficient	±0.02% oC (typical)
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-10 to 70°C (14 to 158°F) (Please reference Figure 2 for derating curve)
Operating Humidity	0% to 95% Non-condensing
Vibration	Operating vibration : 1Grms, 5 to 500Hz, random vibration, 30 minutes along X, Y, Z axis. Non-Operating vibration : 2Grms, 5 to 500Hz, random vibration, 30 minutes along X, Y, Z axis
Shock	Operating Shock : 10G maximum, 1/2 sine wave, 11 msec in any axis. Non-Operating Shock : 20G maximum, 1/2 sine wave, 11 msec in any axis.
Regulatory Approvals	
EMI	CISPR 22 class A, EN55022 class A, FCC parts 15 class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11, IEC-61000-3-2 class A & class D
Safety	UL60950-1, EN60950-1, CUL : CAN/CSA C22.2 No.60950-1 HI-POT (L,N to DC output) : 4242VDC, 1 minute, Ilimit : 8mA HI-POT (L,N to FG) : 2121VDC, 1 minute, Ilimit : 8mA I.R. : 50MQ (min. at room temperature) / 500VDC
MTBF (Hours) (MIL-HDBK-217F2, GB, GC, 25°C)	352,648
Warranty	2 years

Ordering Information

	Model Name	Description
Available Model	RPM-130-AC_US	1130W rack mount 12VDC/10.8A Power Supply Module with universal 100 to 240VAC input, US power cord
	RPM-130-AC_EU	130W rack mount 12VDC/10.8A Power Supply Module with universal 100 to 240VAC input, EU power cord
Packing List <ul style="list-style-type: none"> RPM-130-AC Quick Installation Guide AC power cord 		Optional Accessories (Can be purchased separately) <ul style="list-style-type: none"> FPC series : Fiber Patch cord