



## RKAM Series

## MIL-GRADE RACKMOUNT AC/DC POWER SUPPLY



### FEATURES

- 19 inch Rack
- Multiple, Customizable Isolated Outputs (6 max, 3 if Redundancy needed)
- 85~270VAC in, 47~63Hz (400 Hz Optional)
- 1U~4U Height
- Conformal Coated
- Aluminum Enclosure
- Removable Dust filter
- Power Good LED Indicator
- Customizable Alarms

INPUT			
Voltage/ Freq	Vrms	AC 85~277/ 47~63Hz	
Current	A(rms)	Dependent on Customer Options	
Inrush Current	A	Dependent on Customer Options	
Power Factor	-	> 0.98 @ full load (115VAC )	
Leakage Current	mArms	< 3.3 mArms @ 115 VAC in	

OUTPUT														
Voltages	VDC	5	9	12	15	20	24	26	28	30	36	48	55	
Max Current	A	84	84	84	46	46	46	46	46	46	25	25	25	
Efficiency 110 VAC Full Load	%	84	84	84	86	86	87	87	87	87	89	89	89	
Regulation	%	+/-1.5	+/-1.5	+/-1.5	+/-1.5	+/-1.5	+/-1.5	+/-1.5	+/-1.5	+/-1.5	+/-1.5	+/-1.5	+/-1.5	
Ripple/Noise	% Pk-Pk	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Hold-up Time	mS	>20mS @ full load, 115 VAC												
Insulation And Dielectric	Primary-Secondary	4242 VDC (3000 VAC)												
	Primary to Ground (Mounting holes or chassis)	>1500 VDC for 30 seconds												
	Output to Ground	>100MΩ at 25°C, 40%RH & 500VDC												

Note: Full performance data information available upon request.



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<b>Protection</b>	Overvoltage	Shutdown and latch off; AC recycle to restart
	Overload	Hiccup, Auto recovery
	Over temperature	Output shutoff when internal temperature reaches 85~90°C,
	Short Circuit	Auto Recovery
<b>Environment</b>	Operating Temp	-40~70C
	Storage Temp	-55 to +105 C
	Operating Humidity	10~95% , non-condensing
	Operating Altitude	15,000 ft max
	Vibration	MIL-STD810H, Method 514.8, Category 24, Figure 514.8E-1.
	Shock	MIL-STD-810H, Procedure 1, 20G 11ms
	MTBF Telecordia SR-22	>450,000 hrs.@ 40C ambient temp. Ground benign
<b>Standards</b>	Conducted Emissions <sup>2</sup>	MIL-STD-461F/G: CE 102 (10Khz~10Mhz)
	Susceptibility	MIL-STD-461F/G: CS114, CS115, CS116
	Radiated Emissions	MIL-STD-461F/G: RE102, RE103
	Immunity <sup>3</sup>	8 kV (contact discharge) or 15 kV (air discharge) electrostatic discharge
<b>Size</b>	Inches/lbs	19 inch width, Height and Depth Dependent on Customer selection

1. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.
2. Standards: Unit has been designed to meet the standards listed. It is the responsibility of the customer to test in system. Conducted emissions using shielded 3 conductor cable (L,N,G) with unit mounted to chassis ground.
3. Contact factory for test conditions.

## OPTIONS

### Connectors

- Customer may request connector change with MOQ
- D38999 or equivalent
  - MIL/SAE 5015 or equivalent

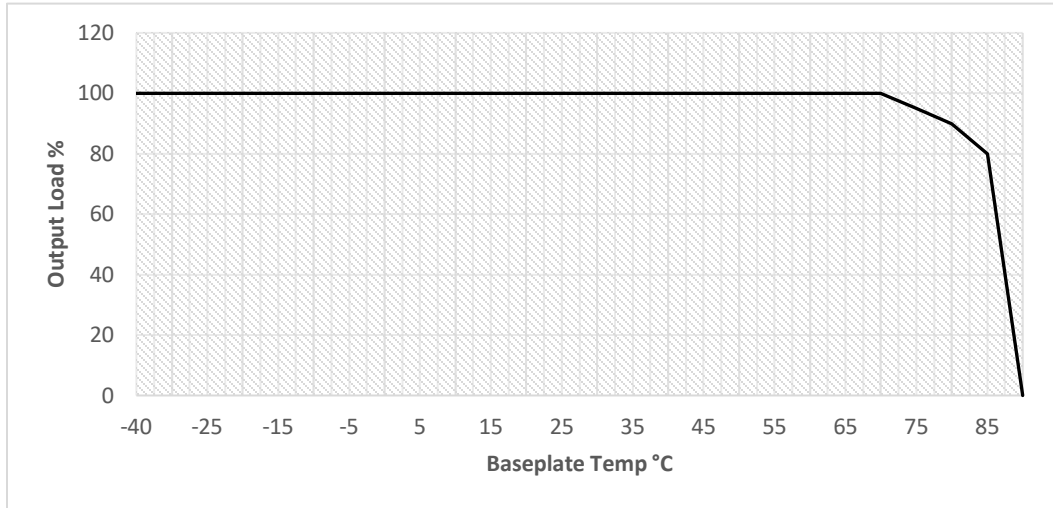
### Additional Options

- Redundancy
- Constant Current OCP<sup>1</sup>
- 400 Hz Input
- Three Phase Input
- Ground Fault Alarm
- Power Fail Alarm
- High Temp Alarm
- Digital Voltage and Current Panel Meter
- Remote on/off
- Status Reporting (I2C-contact factory for Addresses)
- Temperature Activated Automatic Fan
- Power Coat or Anodized Finish

1. Constant Current Option reduces total rated output current by 5~10%, contact factory for details



## DERATING



## DIMENSIONAL DRAWINGS

Contact ETA-USA for 2D and 3D CAD of designs on hand. Conceptual drawings and 3D files available on request

*Specification subject to change without notification*

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