



HZD500 Series

IP65 Rated AC/DC Power Supply



FEATURES

- 500W Conduction Cooled
- Universal Input . Meets Hazardous location IEC60079-0, IEC60079-7 for explosive atmospheres with recommended connector cover.
- Operate in Hi-Temp Outdoor Environment with recommended Heatsink
- Additional Options Available

		UNIT	
INPUT	Voltage/Freq	V	AC 100(95-264) 50/60 Hz (47-63)
	Current Typ.	A	8.6A~4.1A
	Power Factor	-	0.93-0.96
	Inrush Current	A	25A max at 264VAC
	Leakage Current	mA	0.75 max
	Connector		Amphenol RT0714-4PNH

		UNIT	HZD500-12SX	HZD500-24SX	HZD500-28SX	HZD500-48SX	
OUTPUT	Nominal Voltage	VDC	12	24	28	48	
	Efficiency @ 120/220 VAC	%	84/86	87/90	87/90	88/90.5	
	Current	A	42	20.8	18	10.5	
	Rated Power	W	504	504	504	504	
	Line Regulation	%	<1	<1	<1	<1	
	Load Regulation	%	+/-1	+/-1	+/-1	+/-1	
	Ripple	% p-p	1.00	1.00	1.00	1.00	
	Ripple Noise Max	%p-p	1.50	1.00	1.00	1.00	
	Temperature Drift	%	0.5 max	0.5 max	0.5 max	0.5 max	
	Insulation And Dielectric	Primary-Secondary		4242 VDC (3000 VAC)			
		Primary to Ground		>1,500 VDC for 30 seconds			
		(Mounting holes or chassis)		>100MΩ at 25°C, 40%RH & 500VDC			

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.

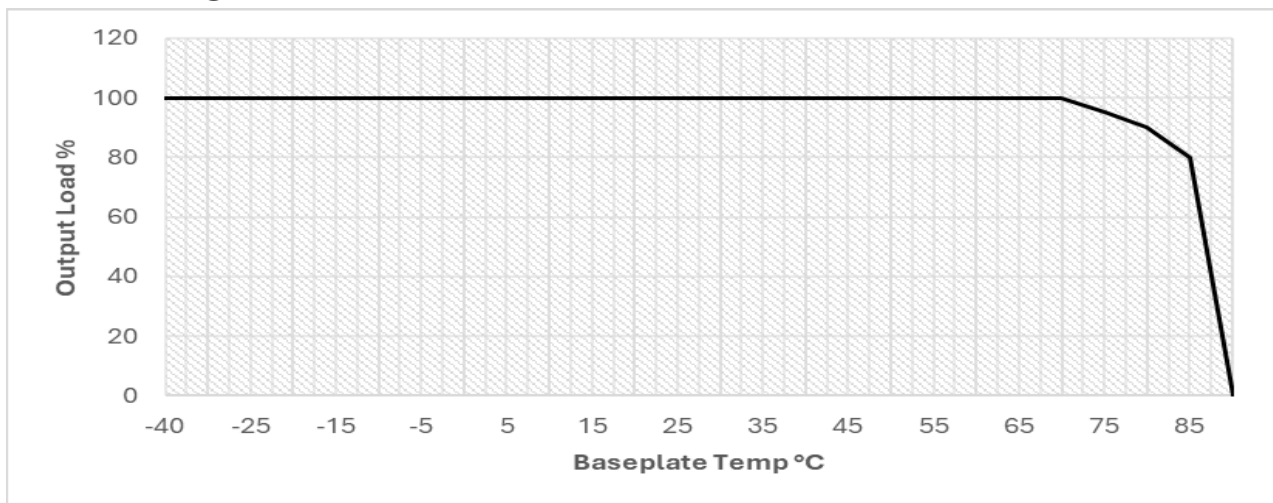




Protection	Overvoltage	Shutdown and latch off; AC recycle to restart
	Overload	Hiccup, Auto recovery
	Over temperature	Output shutoff until base plate temp reaches 85°C, Thermal cutoff is 85~90°C (measured at baseplate). Power recycle to restart
	Short Circuit	Auto Recovery
Environment	Operating temp	-40 to +100C at 3,000 Meters or 10,000 Feet
	Storage Temp	-40 to +100C at 9,000 Meters or 30,000 Feet
	Operating Humidity	10~95% RH
	Shock	MIL-STD810H, Method 514.8, Category 24, Figure 514.8E-1.
	Vibration	MIL-STD-810H, Procedure 1, 20G 11ms
Standards	Safety	Designed to Meet IEC 62368-1, IEC 60601-1-2 4 th Hazardous location IEC60079-0, IEC60079-7
	EMC	IEC61000-3-2 (Class A), EN55032 class A
EMC	EMC Emissions	MIL-STD-461F/G: CE102,
	Susceptibility Immunity	MIL-STD-461F/G: CS114, CS115 8 kV (contact discharge) or 15 kV (air discharge) electrostatic discharge
Enclosure	Material/Ingress	Aluminum/ IP67
	Size/Weight	155x206x75mm / 6x8x2.95 Inches; 2.5Kg / 5.5 lbs

Additional Options	
Power Good LED	Optional/ Contact ETA-USA for more information
Emergency Power Off	Optional/ Push to Power off/Twist to turn on (-E)
Remote On/Off	Optional/external Voltage Required
Finish	Powder Coat Gray pantone (Standard) Black Anodize Clear Chromate

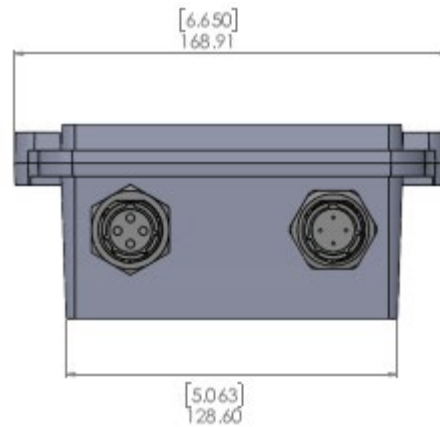
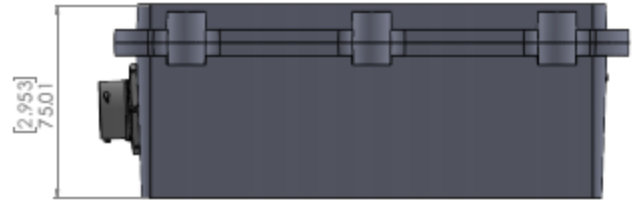
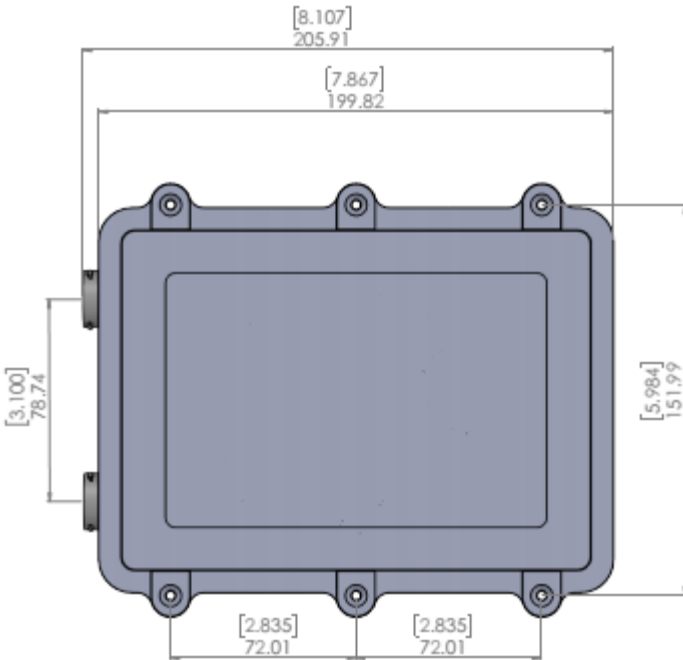
DERATING





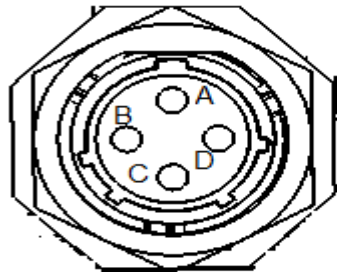
Dimensional Drawing

HZD500- STANDARD



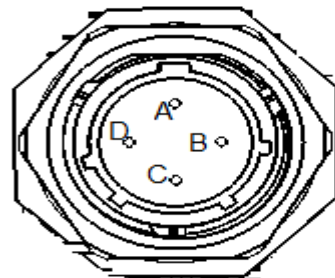
[inches]
Millimeters

DC OUT
P/N: RT07144SNH



PIN A: +48 VDC
PIN B: +48 VDC
PIN C: -48 VDC
PIN D: -48 VDC

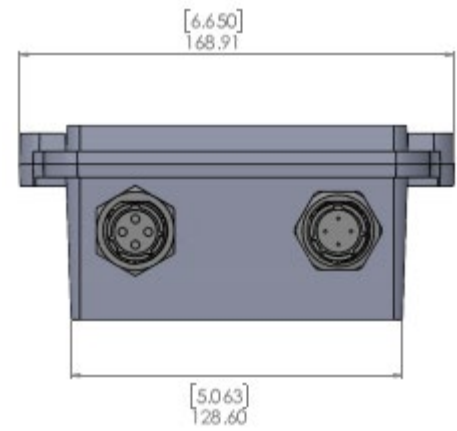
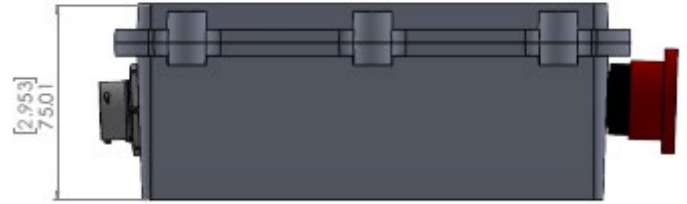
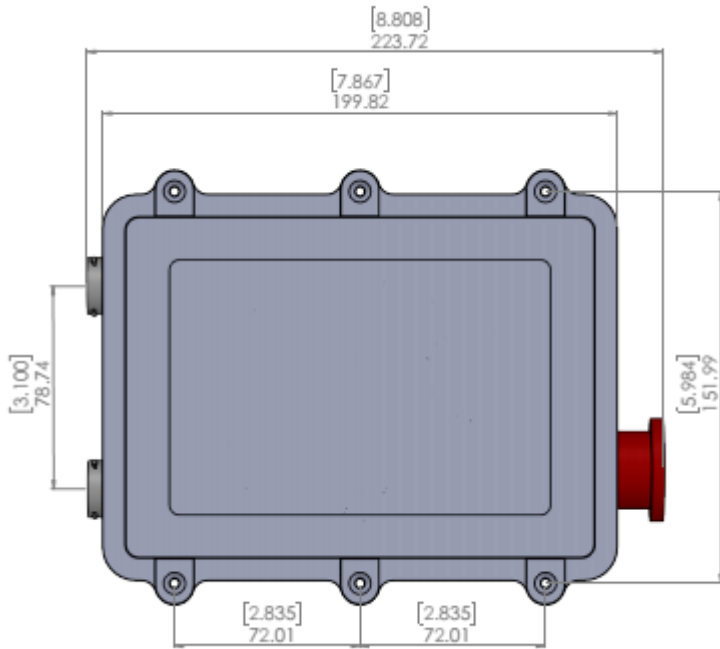
AC IN
P/N RT07144PNH



PIN A: AC LINE
PIN B: NC
PIN C : AC NEUTRAL
PIN D: AC GROUND

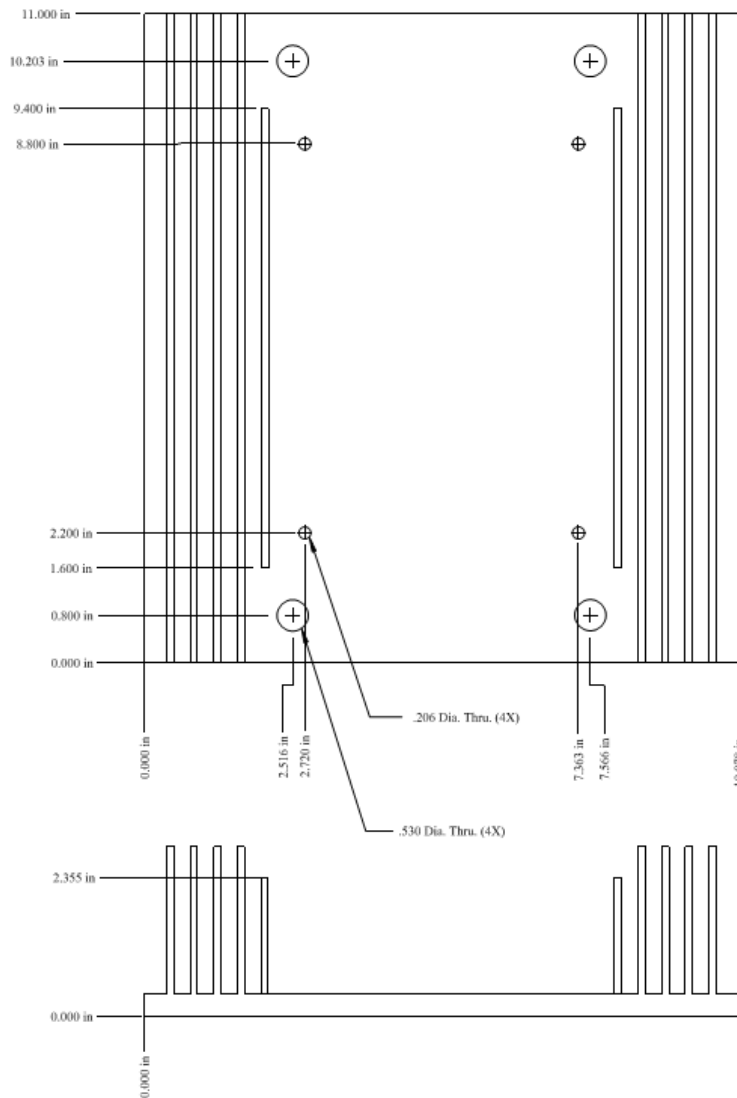
HZD500-**SX-E (WITH EMERGENCY POWER OFF)







HEATSINK P/N 400-005-1012 (Can be ordered separately or with supply)



*Heatsink designed to be mounted with 3.5 inch dia U-bolt, ZSI No. UB3 1/2PA

