

General

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency		92		%	230 VAC Full load
Isolation: Input to Output Input to Ground Output to Ground	4000			VAC	2 x MOPP
	1500			VAC	1 x MOPP
	500			VDC	
Switching Frequency	50		500	kHz	PFC Converter
	65		150		Main Converter
Power Density			15	W/in ³	
Mean Time Between Failure		370		kHrs	MIL-HDBK-217F, Notice 2 +25 °C GB
Weight		1.35 (612)		lb (g)	U Channel
		1.65 (748)			End Fan

Efficiency Vs Load

Figure 2
12 V Models

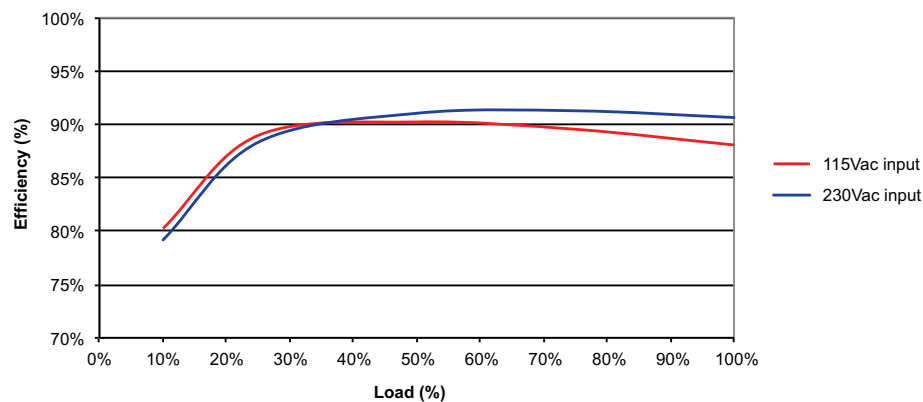


Figure 3
24 V Models

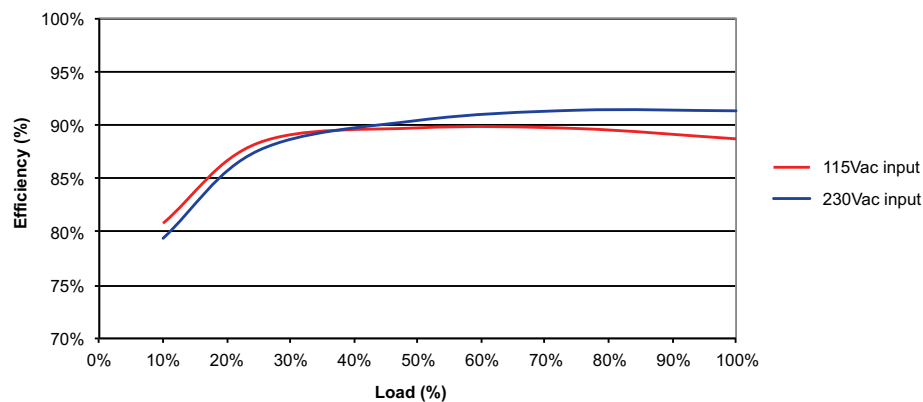
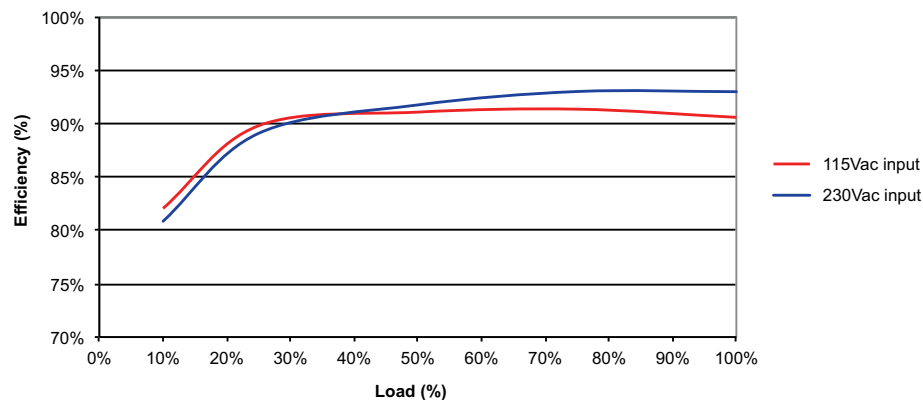


Figure 4
48 V Models

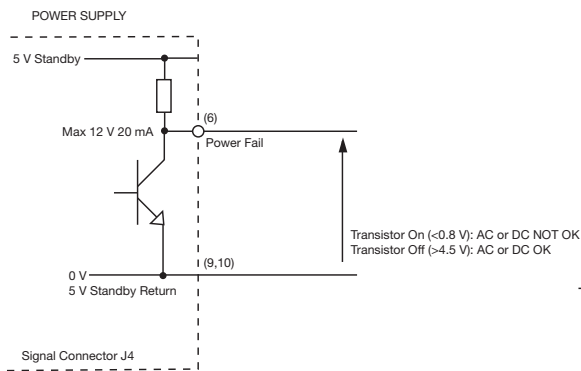


Signals & Controls

Characteristic		Notes & Conditions
Power Fail		TTL Compatible, pin 6 Provides ≥ 5 ms warning of loss of output from AC failure.
Standby Supply		5 VDC/0.2 A referenced to -Vout supply present when AC applied.
Remote On/Off	Inhibit	The inhibit lo, should be pulled below 0.4 V to switch V1 & Vfan off. Open circuit or >4 V to switch on (see fig. 7)
	Enable	With the inhibit lo (pin 4) pulled low as detailed above, connecting inhibit HI to inhibit LO will enable V1 & V fan output. (see fig. 8)
Remote Sense		Compensates for 0.25V per lead, 0.5V total

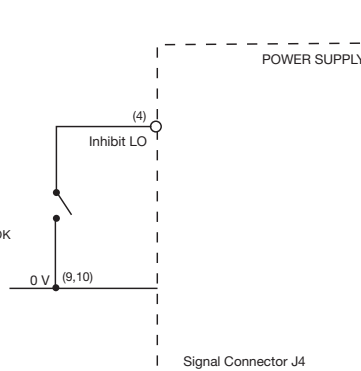
Power Fail

Figure 6



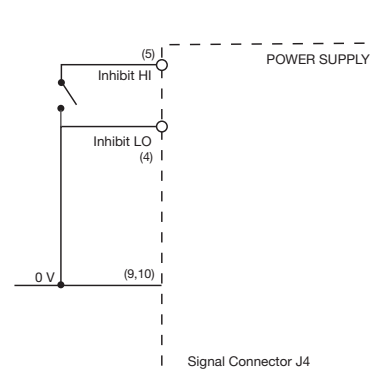
Remote On/Off (Inhibit)

Figure 7



Remote On/Off (Enable)

Figure 8



Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	-40		+70	°C	See derating curve, fig. 9 & 10
Storage Temperature	-40		+85	°C	
Cooling	10			CFM	Forced Cooled >180 W
Humidity	5		95	%RH	Non-condensing
Operating Altitude			4000/5000	m	Medical/ITE
Transport Altitude			10000	m	
Shock					$\pm 3 \times 30$ g shocks in each plane, total 18 shocks. 30g = 11ms (± 0.5 msec), half sine. Conforms to EN60068-2-27 & EN60068-2-47
Vibration					Single axis 10 - 500 Hz at 2g sweep and endurance at resonance in all 3 planes. Conforms to EN60068-2-6

Thermal Derating Curve

Figure 9 - Convection-cooled

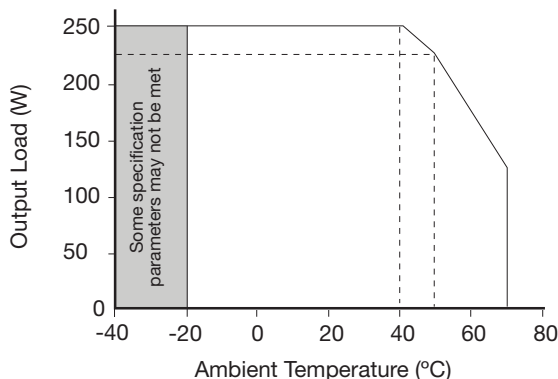


Figure 10 - Forced-cooled 10 CFM & -EF versions

