

### General

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency		94		%	230 VAC Full load (see fig. 1 and 2)
Isolation: Input to Output Input to Ground Output to Ground	4000			VAC	2 MOPP
	1500			VAC	1 MOPP
	1500			VAC	1 MOPP
Switching Frequency	70		130	kHz	PFC
	50		80	kHz	Main converters
Power Density			15/10	W/in <sup>3</sup>	Forced/convection-cooled
Mean Time Between Failure		300		kHrs	MIL-HDBK-217F, Notice 2 +25 °C GB
Weight		0.51(230)		lb(g)	

### Efficiency Vs Load

Figure 1  
ECP225PS12-A  
12 V at 215 W  
5 V at 10 W

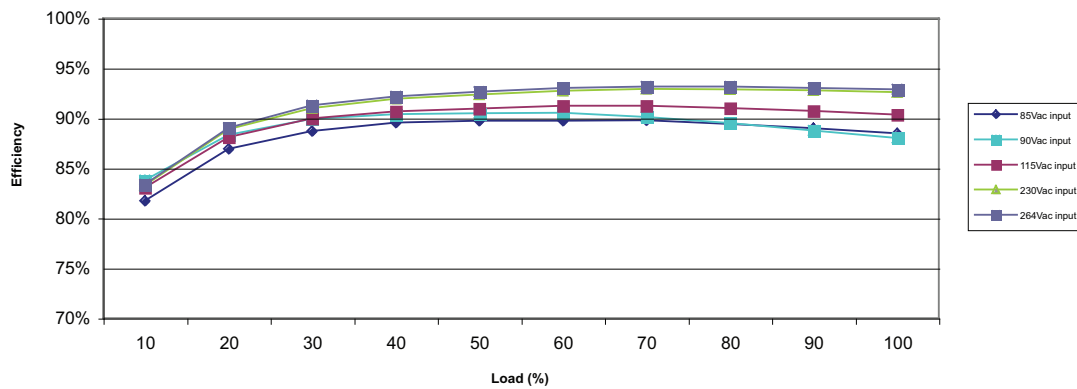


Figure 2  
ECP225PS24-A  
24 V at 215 W  
5 V at 10 W

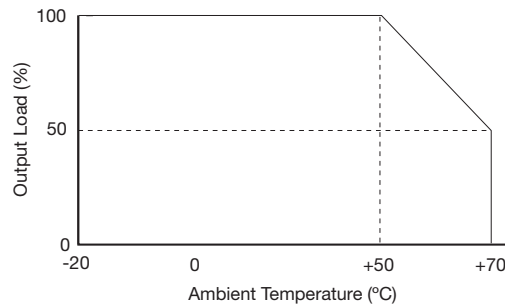


### Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	-20		+70	°C	See derating curve, fig.3
Storage Temperature	-40		+85	°C	
Cooling	10			CFM	Forced-cooled > 150W
Humidity	5		95	%RH	Non-condensing
Operating Altitude			5000	m	
Shock	±3 x 30g shocks in each plane, total 18 shocks. 30g = 11ms (+/- 0.5msecs), half sine. Conforms to EN60068-2-27				
Vibration	Single axis 10-500 Hz at 2g sweep and endurance at resonance in all 3 planes. Conforms to EN60068-2-6				

### Temperature Derating Curve

Figure 3



### EMC: Emissions

Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
Conducted	EN55011/22	Class B		
Radiated	EN55011/22	Class A		Class B with King Core KSB RC 13 x 23 x 7 on input cable and KSB + 25 x 12 x 5 on output cable.
Harmonic Current	EN61000-3-2	Class A		Meet Class C for loads above 145W
Voltage Functions	EN61000-3-3			

### EMC: Immunity

Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
Medical Device EMC	IEC60601-1-2	Ed.4.0 : 2014	as below	
Low Voltage PSU EMC	EN61204-3	High severity level	as below	
ESD	EN61000-4-2	4	A	±8kV contact, ±15kV air
Radiated	EN61000-4-3	3	A	
EFT	EN61000-4-4	3	A	
Surges	EN61000-4-5	Installation class 3	A	
Conducted	EN61000-4-6	3	A	
Magnetic Fields	EN61000-4-8	4	A	
Dips and Interruptions	EN55024 (100 VAC)	Dip >95% (0 VAC), 8.3 ms	A	
		Dip 30% (70 VAC), 416 ms	A	
		Dip >95% (0 VAC), 4160 ms	B	
	EN55024 (240 VAC)	Dip >95% (0 VAC), 10.0 ms	A	
		Dip 30% (168 VAC), 500 ms	A	
		Dip >95% (0 VAC), 5000 ms	B	
	EN60601-1-2 (100 VAC)	Dip 100% (0 VAC), 10.0 ms	A	
		Dip 100% (0 VAC), 20 ms	A	
		Dip 60% (40 VAC), 100 ms	A	Derate Output Power to 45W
		Dip 30% (40 VAC), 500 ms	A	
	EN60601-1-2 (240 VAC)	Dip 100% (0 VAC), 5000 ms	B	
		Dip 100% (0 VAC), 10.0 ms	A	
		Dip 100% (0 VAC), 20 ms	A	
		Dip 60% (96 VAC), 100 ms	A	
Dip 30% (168 VAC), 500 ms		A		
		Dip 100% (0 VAC), 5000 ms	B	