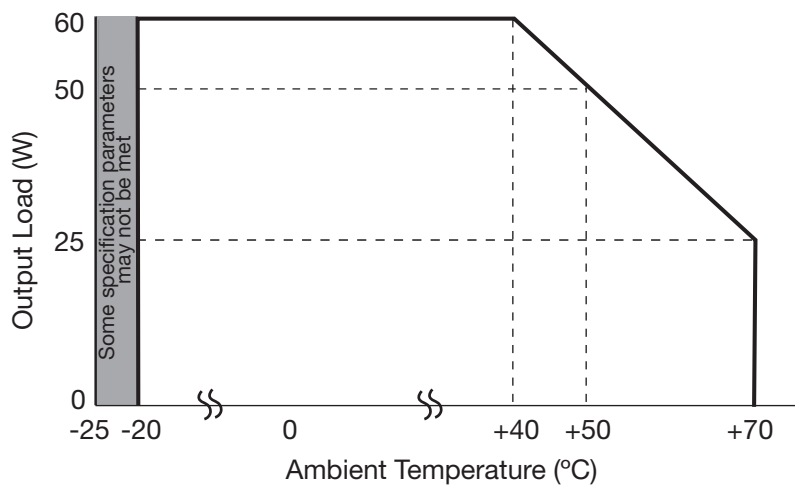


Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	-25		+70	°C	See derating curve, fig.1
Storage Temperature	-40		+85	°C	
Humidity	5		95	%RH	Non-condensing
Operating Altitude			5000/4000	m	ITE/Medical
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 1



Notes

FCS60US12 ripple and noise is <1.5% from -25 °C to 0 °C reducing to <1% after 1 minute warm up.

EMC: Emissions

Phenomenon	Standard	Test Level	Notes & Conditions
Conducted	EN55011/32	Class B	See note 1.
Radiated	EN55011/32	Class A	Class B with Wurth Electronics 742 700 91 with 4 turns on AC Input. See note 1.
Harmonic Current	EN61000-3-2	Class A	
Voltage Functions	EN61000-3-3		

Notes

1. For class I applications, ensure the two mounting holes marked with ⊕ are connected together and to safety earth to meet Class B conducted and radiated emissions.

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	±8kV contact, ±15kV air	A		
Radiated	EN61000-4-3	3	A		
EFT	EN61000-4-4	3	A		
Surge	EN61000-4-5	Installation class 3	A		
Conducted	EN61000-4-6	3	A		
Magnetic Fields	EN61000-4-8	4	A		
Dips and Interruptions	EN61000-4-11 (100 VAC)	Dip 100% (0 VAC), 8.4 ms	A	25% derating	
		Dip 100% (0 VAC), 16.7 ms	B		
		Dip 60% (40 VAC), 200 ms	B		
		Dip 30% (70 VAC), 500 ms	B		
		Dip 20% (80 VAC), 5000 ms	B		
		Int 100% (0 VAC), 5000 ms	B		
	EN61000-4-11 (115 VAC)	Dip 100% (0 VAC), 8.4 ms	A		
		Dip 100% (0 VAC), 16.7 ms	B		
		Dip 60% (40 VAC), 200 ms	B		
		Dip 30% (70 VAC), 500 ms	B		
		Dip 20% (80 VAC), 5000 ms	B		
		Int 100% (0 VAC), 5000 ms	B		
	EN61000-4-11 (240 VAC)	Dip 100% (0 VAC), 10 ms	A		
		Dip 100% (0 VAC), 20 ms	B		
		Dip 60% (96 VAC), 200 ms	B		
		Dip 30% (168 VAC), 500 ms	B		
		Dip 20% (192 VAC), 5000 ms	B		
		Int 100% (0 VAC), 5000 ms	B		
	EN60601-1-2 (100 VAC)	Dip 100% (0 VAC), 10 ms	A		TBA% derating
		Dip 100% (0 VAC), 20 ms	A		TBA% derating
		Dip 60% (40 VAC), 100 ms	A		TBA% derating
		Dip 30% (70 VAC), 500 ms	A		
		Int 100% (0 VAC), 5000 ms	B		
	EN60601-1-2 (240 VAC)	Dip 100% (0 VAC), 10 ms	A		
Dip 100% (0 VAC), 20 ms		A			
Dip 60% (96 VAC), 100 ms		A			
Dip 30% (168 VAC), 500 ms		A			
Int 100% (0 VAC), 5000 ms		B			

Safety Approvals

Safety Agency	Safety Standard	Notes & Conditions
CB Report	IEC60950-1, IEC62368-1	Information Technology
UL	cUL62368-1	Information Technology
TUV	EN62368-1	Information Technology
CE	LVD	

Safety Agency	Safety Standard	Notes & Conditions
CB Report	IEC60601-1 Ed 3.1 Including Risk Management	Medical
UL	ANSI/AAMI ES60601-1: & CSA C22.2 No.6061-1:08	Medical
CE	EN60601-1	Medical

Safety Agency	Safety Standard	Notes & Conditions
CB Report	IEC60335-1	Household

Isolation	Safety Standard	Notes & Conditions
Primary to Secondary	2 x MOPP (Means of Patient Protection)	IEC60601-1 Ed 3.1
Primary to Earth	1 x MOPP (Means of Patient Protection)	
Secondary to Earth	1 x MOPP (Means of Patient Protection at output voltage)	