

750 Watts

- Low Profile, Compact Size
- Suitable for 1U Applications
- 900 W Peak Power Rating for 100 ms
- Universal 80 - 264 VAC Input (300 VAC for 5 s)
- IT/Industrial & Medical (2 x MOPP) Safety Approvals
- 5 V/3 A Standby Output
- 1.0 W Standby Power
- Intelligent Fan Speed Control
- -40° C to +70° C Operation
- PowerFail, Inhibit, Remote Sense & Current Share
- 3 Year Warranty



Dimensions:

GSP750:

10.0 x 4.0 x 1.65" (254.0 x 101.6 x 41.91 mm)

The GSP750 offers a full 750 W of output power in a very small mechanical footprint while providing peak power to up to 900 W, a 5 V standby output with 3 A current capability and an input standby power draw of <1.0 W when the inhibit is activated.

Approved for both IT/Industrial and medical applications the series has output versions from 12 V to 48 V. Cooling fans are intelligently controlled to reduce acoustic noise in the system and the GSP750 provides up to 50 W without forced cooling, allowing the fans to be switched off, providing silent running during periods of lower system loading or system standby conditions.

Models & Ratings

Output Voltage	Output Current V1	Standby Supply		Max Output Power		Model Number
		<50 W Load (fans off)	>50 W Load (fans on)	Nom	Peak ⁽¹⁾	
12.0 VDC	62.5 A	5 V/1 A	5 V/3 A	750 W	900 W	GSP750PS12-EF
24.0 VDC	31.3 A	5 V/1 A	5 V/3 A	750 W	900 W	GSP750PS24-EF
48.0 VDC	15.6 A	5 V/1 A	5 V/3 A	750 W	900 W	GSP750PS48-EF

Notes

1. Peak power available for 100 ms maximum with a 10% duty cycle. The average power in a period should be equal or less than the nominal power.

Input

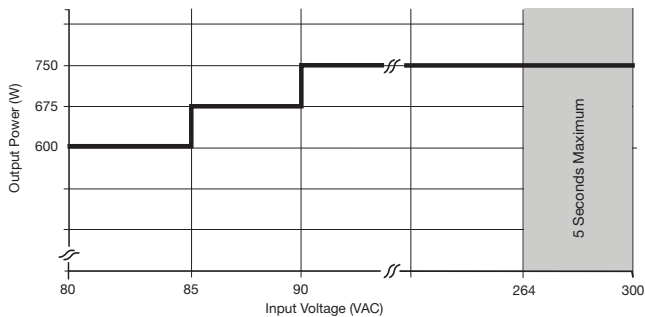
Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage - Operating	80	115/230	264	VAC	Derate output power <90 VAC. See fig 1.
Input Voltage - Fault condition			300	VAC	5 second max
Input Frequency	47	50/60	63	Hz	
Power Factor		>0.9			230 VAC, 100% load
Input Current - Full Load		8.7/4.35		A	115/230 VAC
Inrush Current		60		A	
No Load Input Power			1	W	All models, when inhibit activated
Earth Leakage Current		80/220	250	µA	115/230 VAC/50 Hz Typ., 264 VAC/60 Hz Max.
Input Protection	F16.0 A/250 V internal fuse in both lines				

Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Output Voltage - V1	12		48	VDC	See Models and Ratings table
Initial Set Accuracy			±1	%	50% load, 115/230 VAC
Output Voltage Adjustment			+1,-3	%	
Minimum Load	0			A	No minimum load required
Start Up Delay		1.0	2.0	s	115/230 VAC full load from input AC turn on
Hold Up Time	10			ms	100% load
Drift			±0.5	%	After 20 min warm up
Line Regulation			±0.5	%	90-264 VAC
Load Regulation		0.2	1.0	%	0-100% load
Transient Response			4	%	Recovery within 1% in less than 500 μ s for a 50-75% and 75-50% load step
Over/Undershoot			5	%	
Ripple & Noise		0.5	1.5	% pk-pk	20 MHz bandwidth
Overvoltage Protection	115		140	%	Vnom DC. Output 1, recycle input to reset
Overload Protection	110		150	% I nom	See fig. 2. Trip and Restart
Short Circuit Protection					Shutdown & auto recovery
Temperature Coefficient			0.05	%/°C	
Overtemperature Protection					Shutdown & auto recovery

Input Voltage Derating Curve

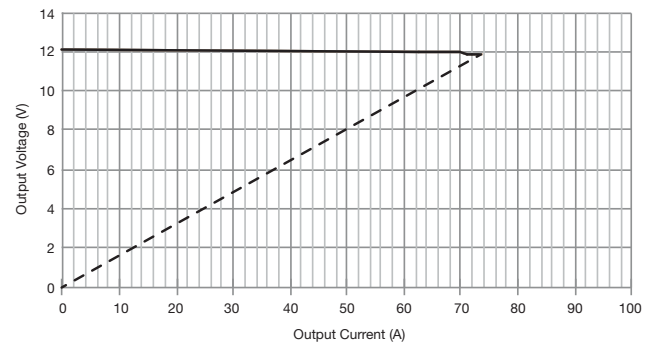
Figure 1



Output Overload Characteristic

Figure 2

GSP750PS12 example (others similar).



General

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency		90		%	230 VAC Full load (see fig.3-5)
Isolation: Input to Output Input to Ground Output to Ground	4000			VAC	2 x MOPP
	1500			VAC	1 x MOPP
	500			VDC	1 x MOPP at 48 VDC
Switching Frequency		65		kHz	PFC Converter
	50	90	200		Main Converter
		100			Standby Converter
Power Density			11.7	W/in ³	
Mean Time Between Failure		186		kHrs	MIL-HDBK-217F, Notice 2 +25 °C GB
Weight		2.97 (1.35)		lb (kg)	