



# 100W Power Supply

Model	S-100-3	S-100-5	S-100-7.5	S-100-10	S-100-12	S-100-15	S-100-18	S-100-24	S-100-27	S-100-48	
Output	DC Voltage	3V	5V	7.5V	10V	12V	15V	18V	27V	27V	48V
	Rated Current	20A	20A	13.6A	10A	8.5A	6.7A	5.6A	4.5A	3.7A	2A
	Current Range	0 ~ 20A	0 ~ 20A	0 ~ 13.6A	0 ~ 10A	0 ~ 8.5A	0 ~ 6.7A	0 ~ 5.6A	0 ~ 4.5A	0 ~ 3.7A	0 ~ 2A
	Rated Power	60W	100W	102W	100W	102W	100.5W	100.8W	108W	99.9W	96W
	Ripple & Noise (max.)	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	Voltage Adj. Range	2.85 ~ 3.3V	4.75 ~ 5.5V	6.75~8.25V	9 ~ 11V	10.8~13.2V	13.5~16.5V	16.2~19.8V	21.6~26.4V	26 ~ 32V	43.2~52.8V
	Voltage Tolerance	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
	Load Regulation	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
	Setup, Rise Time	200ms, 80ms at full load									
	Hold Time	20ms at full load									
Input	Voltage Range	85 ~ 132VAC/180 ~ 264VAC selected by switch			255 ~ 370VDC						
	Frequency Range	47 ~ 63Hz									
	Efficiency (Typ.)	70%	78%	80%	80%	81%	81%	82%	84%	84%	84%
	AC Current (Typ.)	2.4A/115VAC		1.2A/230VAC							
	In Rush Current (Max.)	COLD START 30A/115VAC		60A/230VAC							
Leakage Current	<1mA / 240VAC										
Over load	105 ~ 150% rated output power (150 ~ 200% rated output power for S-100-7.5 only)										
	Protection type : Shut down o/p voltage, re-power on to recover										
Environment	Working Temp.	-10 ~ +60°C (Refer to output load derating curve)									
	Working Humidity	20 ~ 90% RH non-condensing									
	Storage Temp. Humidity	-20 ~ +85°C , 10 ~ 95% RH									
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)									
Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes										
Safety & EMC	Safety Standards	Design refer to UL1012									
	Withstand Voltage	I/P-O/P:1.5KVAC		I/P-FG:1.5KVAC		O/P-FG:0.5KVAC					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC									
	EMI Conduction & Radiation	Design refer to FCC Part15 J Conduction Class B									
Others	MTBF	322.4K hrs min.		MIL-HDBK-217F (25°C)							
	Dimension	199*98*38mm (L*W*H)									
	Packing	0.8Kg; 16pcs/13.8Kg/0.95CUFT									
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.										
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.										
	3. Tolerance : includes set up tolerance, line regulation and load regulation.										