

Features :

- . AC input range selected by switch
- . Protection : short circuit / over load
- . Thin profile (38mm thick)
- . Free air cooling convection
- . Fix switching frequency at 25KHz
- . 100% full load burn-in test
- . Low cost

1 year warranty

Model	S100-3	S100-5	S100-7.5	S100-12	S100-15	S100-24	S100-27	S100-48
DC output voltage	3V	5V	7.5V	12V	15V	24V	27V	48V
Output voltage tolerance	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Output rated current	20A	20A	13.6A	8.5A	6.7A	4.5A	3.7A	2A
Output current range	0~20	0~20	0~13.6	0~8.5	0~6.7	0~4.5	0~3.7	0~2
Ripple & noise	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV
Line regulation	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
Load regulation	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
DC output power	60W	100W	102W	102W	100.5W	108W	99.9W	96W
Efficiency	70%	78%	80%	81%	81%	84%	84%	84%
DC voltage adjustment	2.85~3.3	4.75~5.5	6.75~8.25	10.8~13.2	13.5~16.5	21.6~26.4	26~32	43.2~52.8
Input voltage range	85~132VAC / 180~264VAC selected by switch ; 47~63Hz ; 255~370 VDC							
AC current	2.4A / 115 V ; 1.2A 230 V							
Inrush current	Cold start 30A/115V ; 60A/230V							
Leakage current	<1mA/240VAC							
Over-load protection	105~150%		150~200%		105~150%			
	Type : output shutdown Reset : recycle AC on-off							
Over-voltage protection							
Temperature coefficient	±0.03% /°C (0°~50°C)							
Set-up, Rise, Hold-up time	200ms, 80ms, 20ms							
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min. Each axes							
Withstand voltage	I/P-O/P: 3KVACVAC I/P-FG: 1.5 KVAC ; O/P-FG: 0.5 KVAC							
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG : 500 VDC /100MΩ							
Working temp. & humidity	-10°C~+60°C (refer to output derating curve) 20~90% R.H.							
Storage temp. & humidity	-20°C~+85°C, 10%~95% R.H. (non-condensing)							
Dimensions	199 x 98 x 38 mm (Length x Width x Height) case 902							
Weight	650 gr							
Safety standards	Meet UL1012 requirements (not apply for the mark)							
EMC standards	Meet FCC part 15 J conduction Class B							

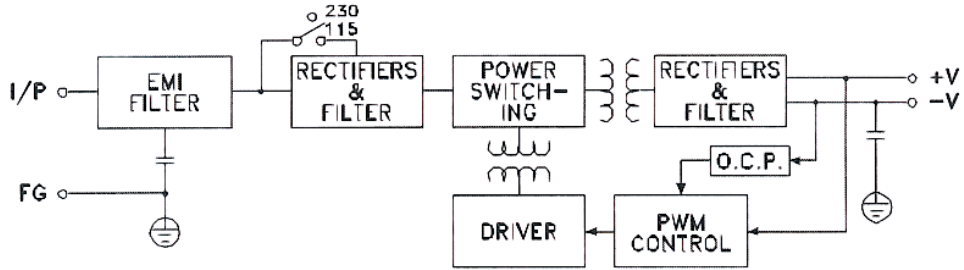
Notes:

- All parameters are specified at 230VAC input, rated load, 25°C & 70% R.H. ambient.
- Tolerance include setup tolerance, line regulation, load regulation.
- Ripple & Noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1yF & 47uF capacitor.
- Line regulation is measured from low line to high line at rated load.
- Load regulation is measured from 0% to 100% rated load



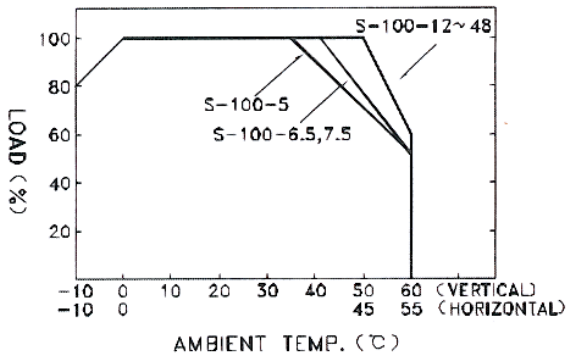
Model	S100-10	S100-18
DC output voltage	10V	18V
Output voltage tolerance	±1%	±1%
Output rated current	10A	5.6A
Output current range	0~10A	0~5.6A
Ripple & noise	100mVp-p	100mVp-p
Line regulation	±0.3%	±0.3%
Load regulation	±0.3%	±0.3%
DC output power	100W	100.8W
Efficiency	80%	82%
DC voltage adjustment	9~11V	16.2~19.8V
Input voltage range	85~132VAC / 180~264VAC selected by switch ; 47~63Hz ; 255~370 VDC	
AC current	2.4A / 115 V ; 1.2A / 230 V	
Inrush current	Cold start 30A/115V ; 60A/230V	
Leakage current	<1mA/240VAC	
Over-load protection	105~150% Type : output shutdown Reset : re-power on	
Over-voltage protection	
Temperature coefficient	±0.03% /°C (0°~50°C)	
Set-up, Rise, Hold-up time	200ms, 80ms, 20ms	
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min. Each axes	
Withstand voltage	I/P-O/P: 3KVACVAC I/P-FG: 1.5 KVAC ; O/P-FG : 0.5 KVAC	
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG : 500 VDC /100MΩ	
Working temp. & humidity	-10°C~+60°C (refer to output derating curve) 20~90% R.H.	
Storage temp. & humidity	-20°C~+85°C, 10%~95% R.H. (non-condensing)	
Dimensions	199 x 98 x 38 mm (Length x Width x Height) case 902	
Weight	650 gr	
Safety standards	Meet UL1012 requirements (not apply for the mark)	
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Notes:	<ul style="list-style-type: none">-All parameters are specified at 230VAC input, rated load, 25°C & 70% R.H. ambient.- Tolerance include setup tolerance, line regulation, load regulation.- Ripple & Noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1yF & 47uF capacitor.- Line regulation is measured from low line to high line at rated load.- Load regulation is measured from 0% to 100% rated load	

BLOCK DIAGRAM

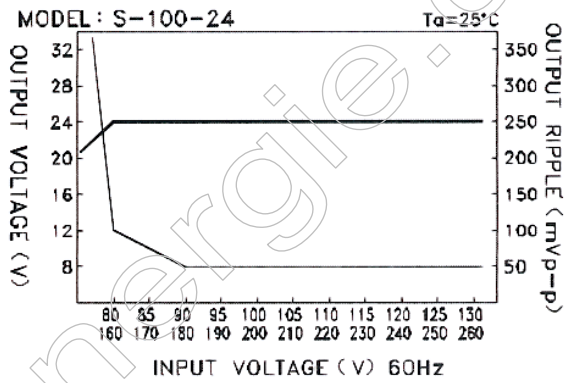


fosc : 25KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- ☒ CASE : 902
- ☒ TERMINAL PIN NO. ASSIGNMENT
 - ☒ PIN 1,2 : AC INPUT
 - ☒ PIN 3 : FG
 - ☒ PIN 4,5 : DC OUTPUT -V
 - ☒ PIN 6,7 : DC OUTPUT +V

