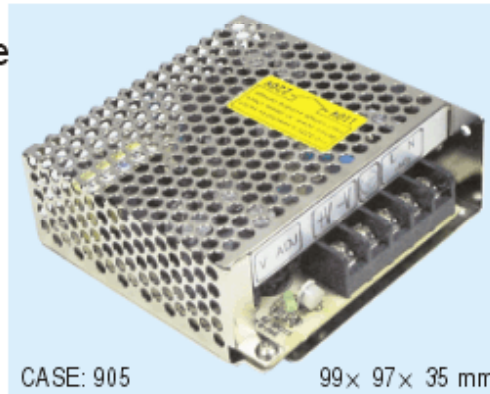


25W Single Output Switching Power Supply

- Universal AC input/ full range
- Protections:
short circuit/over load/ over voltage
- Approvals: UL/ TUV/ CE
- Free air cooling convection
- Fix switching frequency at 56KHz
- 100% full load burn-in test
- 2 years warranty



AC input voltage range.....85~264VAC; 120~370VDC
 AC Inrush current.....cold start, 15A/ 115V, 30A/ 230V
 DC adjust range.....± 10% of rated output voltage
 Over load protection.....105%~150% hiccup mode, auto-recovery
 Over voltage protection.....115%~135% of rated output voltage
 Set, rise, hold up time.....300ms, 50ms, 80ms at full load and 230VAC
 Withstand voltage.....I/P-O/P:3KVAC, I/P-FG:1.5KVAC for 1minute
 Working temperature.....0-50°C@100%, -10°C@80%, 60°C@60% load
 Safety standards.....UL 1012, TUV EN60950 approved
 EMC standards.....EN55022 class B, EN61000-3-2,3
 EN61000-4-2,3,4,5
 Connection.....5P/ 9.5mm pitch terminal block
 Weight/ packing.....0.37kgs/pcs; 45pcs/ 17.5kgs/ 0.9CUFT

Stock No	Type No	Output	Tol.	R&N	Effi.	P.P.
10011	S-25-5	5V, 0~5.0A	± 2%	50mV	72%	39
10012	S-25-12	12V, 0~2.1A	± 1%	100mV	76%	39
10013	S-25-15	15V, 0~1.7A	± 1%	100mV	77%	39
10014	S-25-24	24V, 0~1.1A	± 1%	100mV	80%	39



MEAN WELL

SWITCHING POWER SUPPLY
ISO-9001 CERTIFIED MANUFACTURER

S-25 SERIES



- .LOW COST, HIGH RELIABILITY
- .105°C OUTPUT CAPACITOR
- .INTERNATIONAL AC INPUT RANGE
- .HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- .SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED
- .COMPACT SIZE, LIGHT WEIGHT
- .100% FULL LOAD BURN-IN TEST
- .BUILT IN EMI FILTER, LOW RIPPLE NOISE

MODEL	S-25-5	S-25-12	S-25-15	S-25-24
SPECIFICATION				
DC OUTPUT VOLTAGE	5V	12V	15V	24V
OUTPUT V. TOLERANCE	±2%	±1%	±1%	±1%
OUTPUT RATED CURRENT	5A	2.1A	1.7A	1.1A
OUTPUT CURRENT RANGE	0-5A	0-2.1A	0-1.7A	0-1.1A
RIPPLE & NOISE	50mVp-p	100mVp-p	100mVp-p	100mVp-p
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±1%	±0.5%	±0.5%	±0.5%
DC OUTPUT POWER	25W	25.2W	25.5W	26.4W
EFFICIENCY	72% / 115VAC	76% / 115VAC	77% / 115VAC	80% / 115VAC
DC VOLTAGE ADJ.	+10,-5%	±10%	±10%	±10%
INPUT VOLTAGE RANGE	85~264VAC 47~63Hz; 120~370VDC			
AC CURRENT	0.6A/115V 0.35A/230V			
INRUSH CURRENT	COLD START 15A/115V 30A/230V			
LEAKAGE CURRENT	<0.75mA/240VAC			
OVERLOAD PROTECTION	105% ~150% TYPE:PULSING HICCUP SHUTDOWN RESET:AUTO RECOVERY			
OVER VOLTAGE PROTECTION	115% ~135%			
OVER TEMP. PROTECTION	-----			
TEMP. COEFFICIENT	±0.03% / °C (0~50°C)			
SETUP, RISE, HOLD UP TIME	800ms, 50ms, 10ms / 115VAC 300ms, 50ms, 80ms / 230VAC			
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES			
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms			
WORKING TEMP., HUMIDITY	-10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20% ~90% RH			
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10% ~95% RH			
DIMENSION	99*97*35mm CASE:905			
WEIGHT	0.37Kgs			
SAFETY STANDARDS	UL1012, TUV EN60950 (IEC950, UL1950) APPROVED			
EMC STANDARDS	CISPR22 (EN55022), IEC801-2,3,4, IEC555-2 VERIFICATION			

NOTE :

- 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
- 2.TOLERANCE: INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
- 3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1µF & 47µF CAPACITOR.
- 4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
- 5.LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
- 6.C6 MUST BE REMOVED.

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT																													
16	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P- O/P: 3.0KVAC/ 1 min. (10mA CUT-OFF) I/P - FG: 1.5KVAC/ 1 min. (10mA CUT-OFF) O/P -FG: 0.5KVAC/ 1 min. (10mA CUT-OFF)	A: I/P-O/P :2.43mA I/P-FG :2.46mA O/P-FG :2.56mA	P																													
17	EMS TEST	EFT TEST: EN50082-1 IEC1400-4-4	D: CRITERIA A OK	P																													
		SURGE TEST: EN50082-1 IEC1400-4-5	D: CRITERIA A OK	P																													
18	BURN-IN TEST	I/P: 230VAC O/P: FULL LOAD TA:23°C BURN-IN DURATION : 1 hr	A : NON BREAK	P																													
19	ENVIRONMENT TEST	HIGH AMBIENT TEMPERATURE FULL LOAD TEST I/P:230VAC O/P:FULL LOAD AMBIENT TEMPERATURE:42.5°C	A: AFTER 5hrs NON BREAK	P																													
20	TEMPERATURE RISE TEST T rise OF PARTS	A: I/P :230VAC AFTER 1 hr BURN-IN O/P :FULL LOAD TA:23°C		P																													
		<table border="1"> <thead> <tr> <th>POSITION</th> <th>P/N</th> <th>TEMP</th> <th>T rise</th> </tr> </thead> <tbody> <tr> <td>BD1</td> <td>BRIDGE DIODE</td> <td>56.6°C</td> <td>33.6°C</td> </tr> <tr> <td>Q1</td> <td>MAIN TRANSISTOR</td> <td>61.6°C</td> <td>38.6°C</td> </tr> <tr> <td>T1</td> <td>MAIN TRANSFORMER WIRE</td> <td>72.4°C</td> <td>49.4°C</td> </tr> <tr> <td>D4</td> <td>O/P DIODE</td> <td>89.2°C</td> <td>66.2°C</td> </tr> <tr> <td>C21</td> <td>O/P FILTER CAPACITOR</td> <td>79°C</td> <td>56°C</td> </tr> <tr> <td>LF1</td> <td>LINE FILTER TRANSFORMER</td> <td>49°C</td> <td>26°C</td> </tr> <tr> <td>C5</td> <td>I/P FILTER CAPACITOR</td> <td>56.8°C</td> <td>33.8°C</td> </tr> </tbody> </table>	POSITION		P/N	TEMP	T rise	BD1	BRIDGE DIODE	56.6°C	33.6°C	Q1	MAIN TRANSISTOR	61.6°C	38.6°C	T1	MAIN TRANSFORMER WIRE	72.4°C	49.4°C	D4	O/P DIODE	89.2°C	66.2°C	C21	O/P FILTER CAPACITOR	79°C	56°C	LF1	LINE FILTER TRANSFORMER	49°C	26°C	C5	I/P FILTER CAPACITOR
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C5	I/P FILTER CAPACITOR	56.8°C	33.8°C																														
21	LIFE CYCLE	A: SUPPOSE C21 IS THE MOST CRITICAL COMPONENT I/P:230VAC O/P:FULL LOAD Ta:25°C Tc21:81°C Life: 26026 hrs I/P:230VAC O/P:FULL LOAD Ta:45°C Tc21:100.9°C Life: 6552 hrs		P																													
22	CRITICAL COMPONENT RECORD (FOR QC INSPECTION REFERENCE ONLY)	A: FUSE : 3AL/250V BRIDGE DIODE : LTKBP208G LINE FILTER : TF-207-R3 TRANSFORMER : TF-228-1-R1 EER-28 POWER SWITCHER : 2SK1118 TO-220F OUTPUT DIODE : CTB-24L TO-220 OUTPUT CAPACITOR : ELNA 2200uF/10V 105°C RJH INPUT CAPACITOR : HITACHI 68uF/400V 85°C HP3 P.C.B : S-25N-R5 CEM-1 2 OZ SS																															
DATE	SAMPLE	TEST RESULT		TEST	APPROVAL																												
980526	S-25	PASS		H.C.LIOU	MAX LIN																												
990507	S-25-24	PASS		H.C.LIOU	MAX LIN																												