



# MEAN WELL

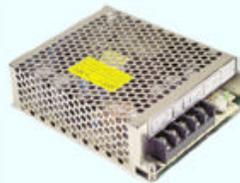
## SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

# S-40

## 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

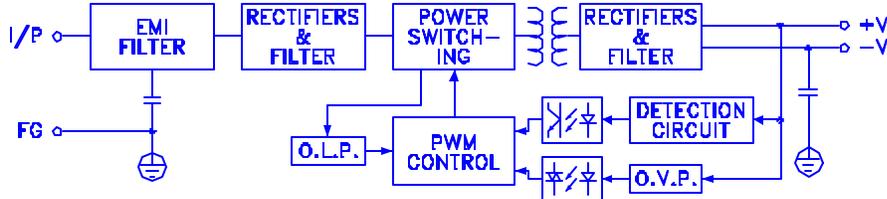


MODEL	S-40-5	S-40-12	S-40-15	S-40-24
SPECIFICATION				
DC OUTPUT VOLTAGE	5V	12V	15V	24V
OUTPUT V. TOLERANCE	±2%	±1%	±1%	±1%
OUTPUT RATED CURRENT	8A	3.5A	2.8A	1.8A
OUTPUT CURRENT RANGE	0-8A	0-3.5A	0-2.8A	0-1.8A
RIPPLE & NOISE	75mVp-p	100mVp-p	100mVp-p	100mVp-p
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±1%	±0.5%	±0.5%	±0.5%
DC OUTPUT POWER	40W	42W	42W	43W
EFFICIENCY	72% / 115VAC	76% / 115VAC	76% / 115VAC	78% / 115VAC
DC VOLTAGE ADJ.	+10,-5%	±0%	±0%	±0%
INPUT VOLTAGE RANGE	85-264VAC 47-63Hz; 120-370VDC			
AC CURRENT	1.2A/115V 0.6A/230V			
INRUSH CURRENT	COLD START 30A/115V 60A/230V			
LEAKAGE CURRENT	<1mA/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, 15ms / 115VAC 300ms, 50ms, 60ms / 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	129*98*38mm CASE:903			
WEIGHT	0.45Kgs			
SAFETY STANDARDS	UL1012, UL1950, TUV EN60950 APPROVED			
EMC STANDARDS	CISPR22 (EN55022) CLASS B, EN61000-3-2,3; EN61000-4-2,3,4,5,6,8,11 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 0.1uF & 47uF 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.C2,3,6 MUST BE REMOVED.

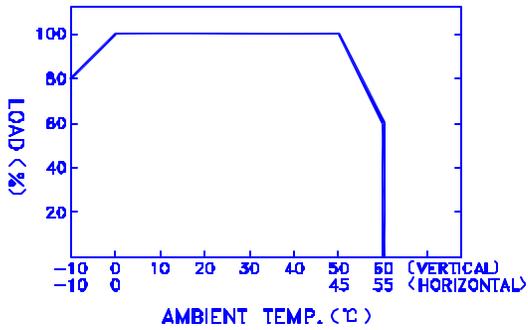
2003-04-10

**BLOCK DIAGRAM**

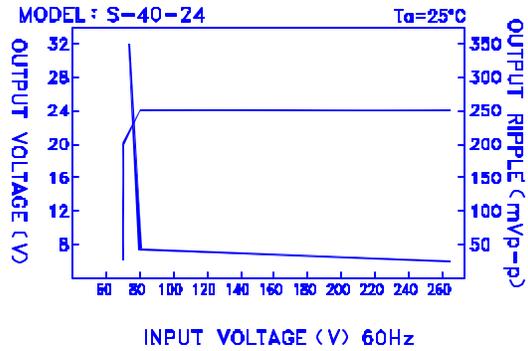


fosc : 36KHz

**OUTPUT DERATING**



**STATIC CHARACTERISTICS**



**DIMENSION (mm)**

- ☒ CASE : 903
- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ PIN 1,2 : AC INPUT
- ☒ PIN 3 : FG  $\oplus$
- ☒ PIN 4 : DC OUTPUT -V
- ☒ PIN 5 : DC OUTPUT +V

