



PS-S40 Series

Specifications



Features:

- Universal AC input/full range
- Protections: Short Circuit / Overload / Overvoltage
- Cooling by free air convection
- DIN rail mountable
- LED indicator for power on DC OK relay contact
- No load power consumption < 0.75W
- 100% full load burn-in test
- 3 year warranty

OUTPUT

Cat. No. PS-S4005 PS-S4012 PS-S4024 PS-S4048

DC VOLTAGE	5V	12V	24V	48V
RATED CURRENT	6A	3.33A	1.7A	0.83A
CURRENT RANGE	0~6A	0~3.33A	0~1.7A	0~0.83A
RATED POWER	30W	40W	40.8W	39.8W
RIPLINE & NOISE (max)	80mVp-p	120mVp-p	150mVp-p	200mVp-p
VOLTAGE ADJ. RANGE	5 ~ 6V	12 ~ 15V	24 ~ 30V	48 ~ 56V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%
LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	500ms, 30ms/230VAC; 500ms, 30ms/115VAC at full load			
HOLD UP TIME (Typ.)	Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 50ms/230VAC; 20ms/115VAC at full load			

INPUT

VOLTAGE RANGE	85~264VAC	120~370VDC	
FREQUENCY RANGE	47~63Hz		
EFFICIENCY (Typ.)	78%	86%	88%
AC CURRENT (max)	1.1A/115VAC; 0.7A/230VAC		
INRUSH CURRENT (Typ.)	COLD START: 30A/115VAC; 60A/230VAC		
LEAKAGE CURRENT	≤1mA/ 240VAC		

PROTECTION

OVERLOAD PROTECTION	105% ~ 150% rated output power		
OVERVOLTAGE PROTECTION	6.25~7.25V	15.6~18V	31.2~36V
OVER TEMPERATURE PROTECTION	Protection type: Constant current limiting, recovers automatically after fault condition is removed		
DC OK AKTIV SIGNAL (max.)			57.6~64.8V

ENVIRONMENT

WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)		
WORKING HUMIDITY	20 ~ 90% RH non-condensing		
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
TEMP. COEFFICIENT	±0.03% °C (0 ~ 50°C)		
VIBRATION	Component: 10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes		
Mounting	Compliance to IEC60068-2-6		

SAFETY & EMC

SAFETY STANDARDS	UL508		
WITHSTAND VOLTAGE	EN60950-1 compliant		
ISOLATION RESISTANCE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC		
EMI CONDUCTION & RADIATION	I/P-O/P, I/P-FG, O/P-FG: ≥100M Ohms/500VDC (25°C; 70% RH)		
HARMONIC CURRENT	Compliance to EN55011		
EMS IMMUNITY	EN55022 (CISPR22)		
	EN61204-3 Class B		
	Compliance to EN61000-3-2, -3		
	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024; ENV50204 ; EN61000-6-2; EN61204-3; light industry level; criteria A		
	The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.		

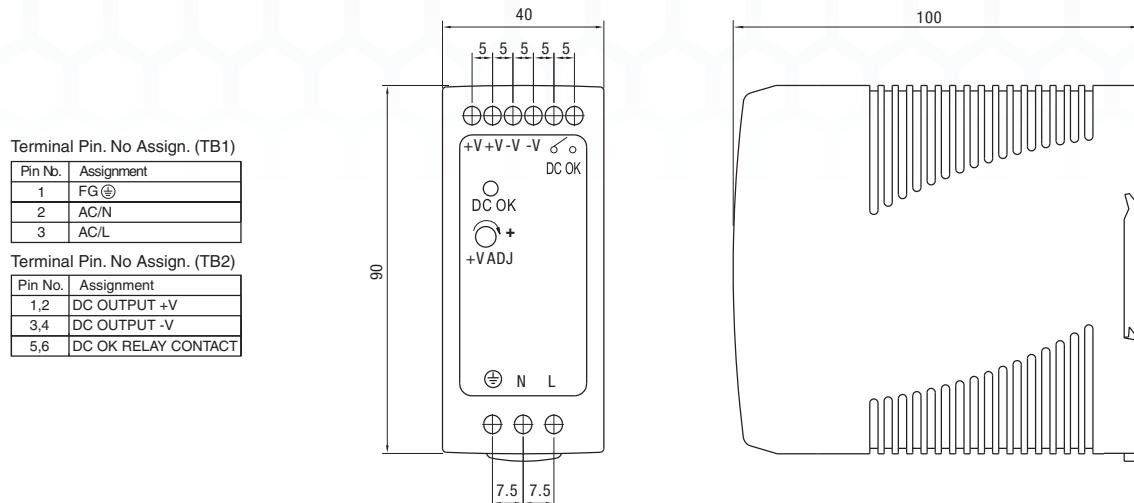
OTHERS

MTBF	301.7K hrs min. MIL-HDBK-217K (25°C)		
DIMENSION	40x90x100mm (WxHxD)		
PACKING	0.3Kg; 42pcs / 13.6 Kg / 0.82CUFT		

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.

For the latest on Altech Power Supply specifications please visit www.altechcorp.com/power.

Mechanical Specification



PSC Class 2 Series
Compact Housing

PSA Flex Series
1 Phase

PSB Flex Series
2 & 3 Phase

PS-S Slim Series
Plastic Housing

PS Low Profile Series
Plastic Housing

PS Industrial Series
1, 2 & 3 Phase

PS C & W Series
1 and 2 Phase

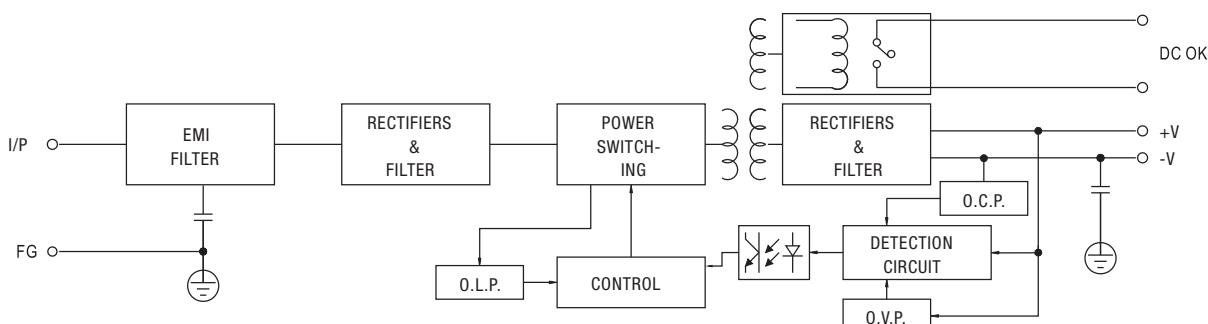
CBI Type
DC UPS Systems

CB Type
Battery Chargers

Accessories

Appendix

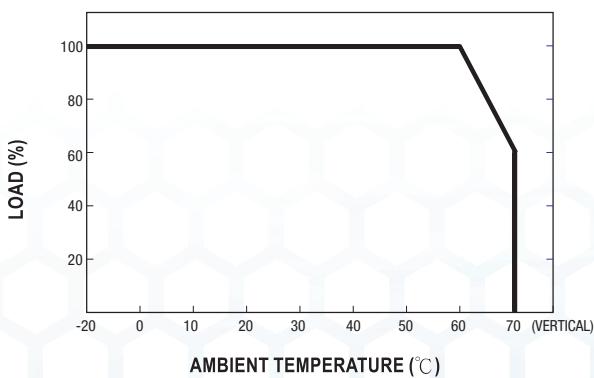
Block Diagram



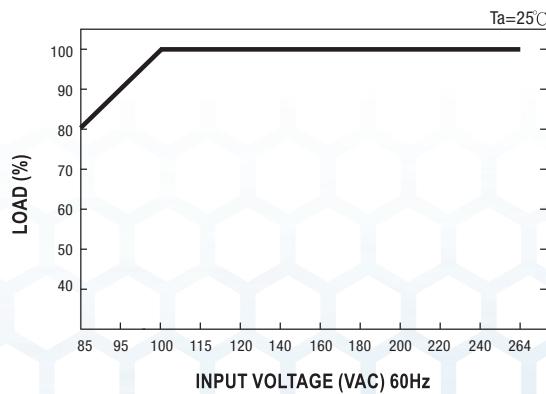
DC OK Relay Contact

Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop more than 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load

Derating Curve



Output Derating VS Input Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

Mouser Electronics

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