

PS-S10 Series Specifications









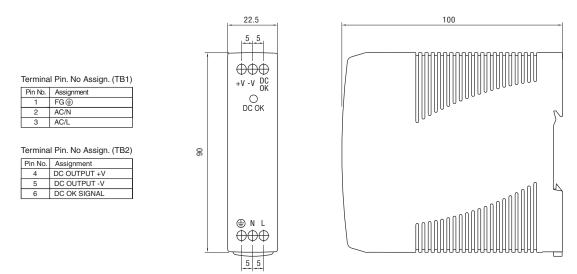


Features:

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

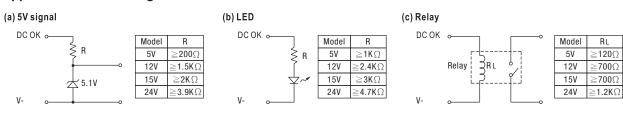
| OUTPUT | Cat. No. | PS-S1005 | PS-S1012 | PS-S1015 | PS-S1024 | |
|---------------|-----------------------------|--|---|--|--|--|
| | DC VOLTAGE | 5V | 12V | 15V | 24V | |
| | RATED CURRENT | 2A | 0.84A | 0.67A | 0.42A | |
| | CURRENT RANGE | 0~2A | 0~0.84A | 0~0.67A | 0~0.42A | |
| | RATED POWER | 10W | 10W | 10W | 10W | |
| | RIPPLE & NOISE (max) | | | | | |
| | RIPPLE & NUISE (IIIAX) | 80mVp-p | 120mVp-p | 120mVp-p | 150mVp-p | |
| | VOLTAGE TOLERANCE | ±5.0% | 20MHz of bandwidth by using a 12 tv ±3.0% | wisted pair-wire terminated with a 0.3 ±3.0% | 1µF & 47µF parallel capacitor ±2.0% | |
| | | Tolerance: includes set up toler | ance, line regulation and load regu | lation. | | |
| | LINE REGULATION | ±1.0% | ±1.0% | ±1.0% | ±1.0% | |
| | LOAD REGULATION | ±5.0% | ±3.0% | ±3.0% | ±2.0% | |
| | SETUP, RISE TIME | 500ms, 30ms/230VAC: | 1000ms, 30ms/115VAC a | t full load | 1 | |
| | | 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. | | | | |
| <u>INPUT</u> | HOLD UP TIME (Typ.) | 120ms/230VAC; 25ms/115VAC at full load | | | | |
| | VOLTAGE RANGE | 85~264VAC; 120~370\ | /DC | | | |
| | FREQUENCY RANGE | 47~63Hz | | | | |
| | EFFICIENCY (Typ.) | 77% | 81% | 81% | 84% | |
| | AC CURRENT (max.) | 0.33A/115VAC; 0.21A/2 | 230VAC | | | |
| | INRUSH CURRENT (Typ.) | COLD START: 35A/115VAC; 70A/230VAC | | | | |
| PROTECTION | LEAKAGE CURRENT | <1mA/ 240VAC | | | | |
| | OVERLOAD PROTECTION | Above 105% rated output power | | | | |
| | | Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | |
| | OVERVOLTAGE PROTECTION | 5.75~6.75V | 13.8~16.2V | 17.25~20.25V | 27.6~32.4V | |
| | | Protection type: Shut down ove | rvoltage, re-power on to recover | | 1 | |
| | OVER TEMPERATURE PROTECTION | Power supply shut down at 70°C constant current limiting / output voltage goes to 0; | | | | |
| | | re-power on to recover | | | | |
| ENVIRONMENT | DC OK AKTIV SIGNAL (max.) | 3.75~6V (50mA) | 9~13.5V (40mA) | 11.5~16.5V (40mA) | 18~27V (20mA) | |
| | WORKING TEMP. | -20 ~ +70°C (Refer to d | 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) | | | | |
| | | Component: 10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes | | | | |
| OAFETY O FMO | VIBRATION | , | | | | |
| SAFETY & EMC | MOUNTING | Compliance to IEC60068-2-6 | | | | |
| | SAFETY STANDARDS | UL508 | | | | |
| | | EN60950-1 compliant | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55011 | | | | |
| | | EN55022 (CISPR22) | | | | |
| | | EN61204-3 Class B | | | | |
| | HARMONIC CURRENT | | Compliance to EN61000-3-2,-3 | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024; EN61000-6-1;EN61204-3; | | | | |
| | | light industry level; criteria A | | | | |
| | | The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed | | | | |
| <u>OTHERS</u> | | that it still meets EMC directives. | | | | |
| | MTBF | 584K hrs min. MIL-HI | DBK-217K (25°C) | | | |
| | DIMENSION | 22.5x90x100mm (WxHxD) | | | | |
| | PACKING | 0.17Kg; 72pcs / 13.2Kg / 0.91CUFT | | | | |
| | | 0, 1 | • | C input, rated load and 25°C of am | bient temperature | |
| | | All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature | | | | |

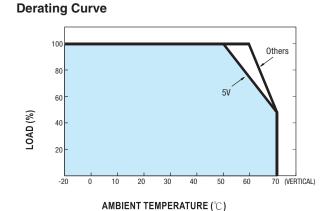
Mechanical Specification

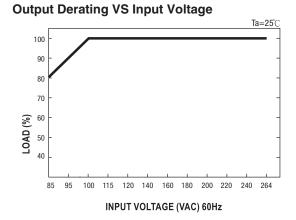


Block Diagram DC OK O DC OK RECTIFIERS RECTIFIERS POWER EMI -O +V **SWITCHING** FILTER FILTER **FILTER** DETECTION FG O CIRCUIT CONTROL 0.L.P. 0.V.P.

Application of DC OK Signal







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