



MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PS-65

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



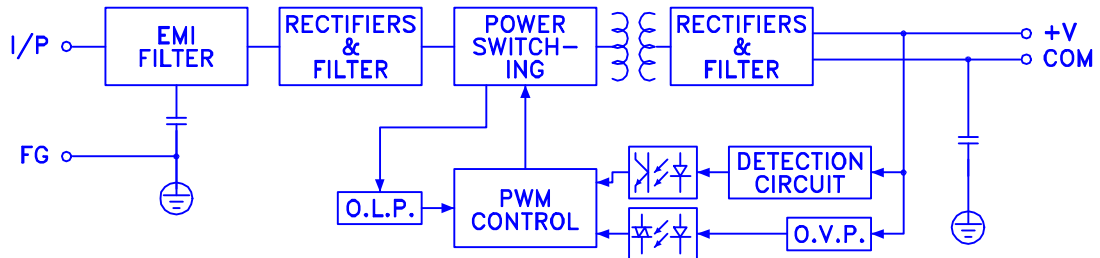
| MODEL | PS-65-3.3 | PS-65-5 | PS-65-7.5 | PS-65-12 | PS-65-13.5 | PS-65-15 | PS-65-24 | PS-65-27 | PS-65-48 |
|---------------------------|--|---------|-----------|----------|------------|----------|----------|----------|----------|
| DC OUTPUT VOLTAGE | 3.3V | 5V | 7.5V | 12V | 13.5V | 15V | 24V | 27V | 48V |
| OUTPUT V. TOLERANCE | ±3% | ±3% | ±3% | ±2% | ±2% | ±2% | ±2% | ±2% | ±2% |
| OUTPUT RATED CURRENT | 12A | 12A | 8A | 5.2A | 4.7A | 4.2A | 2.7A | 2.4A | 1.35A |
| OUTPUT MIN. CURRENT | 0A | 0A | 0A | 0A | 0A | 0A | 0A | 0A | 0A |
| OUTPUT MAX. CURRENT | 15.2A | 13.8A | 9.6A | 6A | 5.4A | 4.8A | 3A | 2.7A | 1.5A |
| RIPPLE & NOISE p-p | 80mV | 100mV | 100mV | 100mV | 100mV | 100mV | 100mV | 100mV | 100mV |
| LINE REGULATION | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% |
| LOAD REGULATION | ±3% | ±3% | ±3% | ±2% | ±2% | ±2% | ±2% | ±2% | ±2% |
| RATED OUTPUT POWER | 39.6W | 60W | 60W | 62.4W | 63.5W | 63W | 64.8W | 64.8W | 64.8W |
| MAXIMUM OUTPUT POWER | RATED OUTPUT POWER FOR CONVECTION: 72W (+3.3V:50W;+5V:69W) WITH 18 CFM MIN. FORCED AIR | | | | | | | | |
| EFFICIENCY | 69% | 76% | 79% | 79% | 79% | 79% | 80% | 80% | 80% |
| DC VOLTAGE ADJ. | +10,-5% | | | | | | | | |
| INPUT VOLTAGE RANGE | 90~264VAC 47~440Hz ; 120~370VDC | | | | | | | | |
| AC CURRENT | 1.5A/115V 0.9A/230V | | | | | | | | |
| INRUSH CURRENT | COLD START 20A/115V 40A/230V | | | | | | | | |
| LEAKAGE CURRENT | <0.5mA/240VAC | | | | | | | | |
| OVERLOAD PROTECTION | 73~105W (3.3V:51~75W)(5V:70~105W) TYPE:PULSING HICCUP SHUTDOWN RESET:AUTO RECOVERY | | | | | | | | |
| OVER VOLTAGE PROTECTION | 115%~135% | | | | | | | | |
| TEMP. COEFFICIENT | ±0.04% / °C (0~50°C) | | | | | | | | |
| SETUP, RISE, HOLD UP TIME | 800ms, 20ms, 20ms | | | | | | | | |
| 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 | 127*76.2*42mm (L*W*H) PCB ONLY | | | | | | | | |
| WEIGHT | 0.28Kgs | | | | | | | | |
| SAFETY STANDARDS | UL1950, TUV EN60950 APPROVED | | | | | | | | |
| EMC STANDARDS | CISPR22 (EN55022), IEC1000-4-2,3,4,5 IEC1000-3-2,3 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.OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT RELATED TO MAXIMUM OUTPUT POWER.
- 6.MOUNTING HOLES M1 AND M2 SHOULD BE GROUNDED FOR EMI PURPOSES.

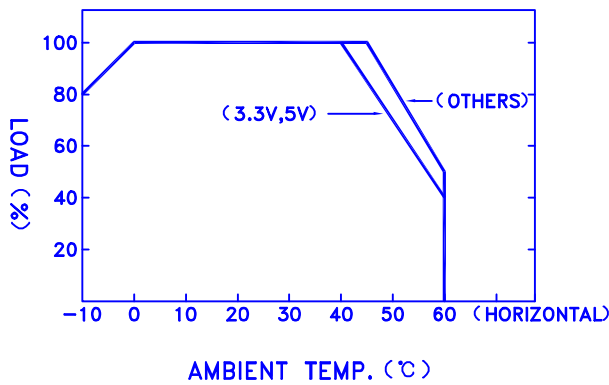
PS-65 SERIES

BLOCK DIAGRAM

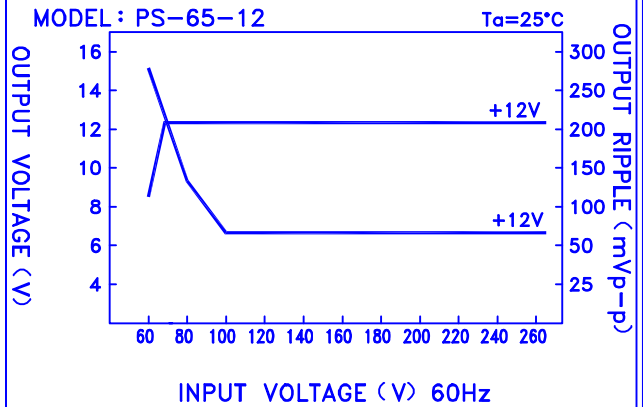


fosc : 65KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

☒ TERMINAL PIN NO. ASSIGNMENT

- ☒ CN1 : MOLEX 5277-02
PIN 1,2 : AC INPUT
- ☒ CN2 : MOLEX 5273-06
PIN 1,2,3 : DC OUTPUT +V
PIN 4,5,6 : DC OUTPUT -V

☒ MATING CONNECTORS

- ☒ CN1,2 MATING CONNECTOR TYPE MOLEX 5195 AND 5239 SERIES OR EQUIVALENT WITH MOLEX 5194 AND 5225 OR EQUIVALENT CRIMP TERMINALS.

