

Power Supply

YEP600 series

Input: 90-305 VAC 47/63Hz
Output Voltage: 36V-60V DC
Rated Power: 600W max.



1. Features

- Protection type: over load/ over voltage/ short circuit
- Cooling by free air convection
- Forced air cooling by built-in DC Fan with fan speed control function
- LED indicator for power on

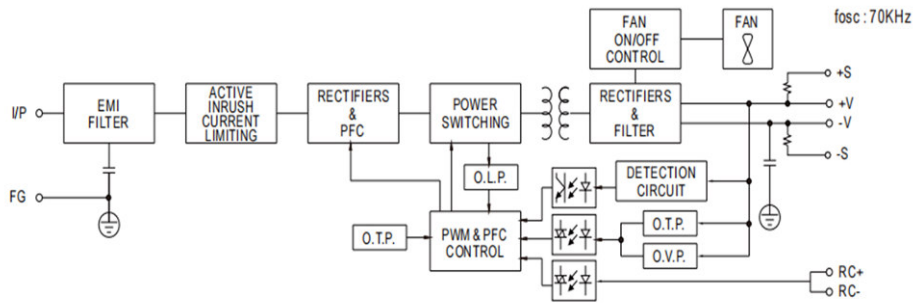
2. Specifications

| Model Detail Specification | | YEP600 -36 | YEP600 -48 | YEP600 -60 |
|---|---|--|------------|------------|
| Input | Input Voltage: | 90-305VAC 127-370VDC | | |
| | Input Frequency: | 47~63Hz | | |
| | Power Factor (typ.): | PF>0.95 | | |
| | AC Current: | 5,3A/115VAC-2,65/230VAC | | |
| | Leakage Current: | <1mA / 240VAC | | |
| | Efficiency: | 91% | 92% | 92% |
| | Starting Load: | 639.4W | 636.0W | 630.0W |
| Output | DC Voltage: | 36V | 48V | 60V |
| | Rated Current: | 16.6A | 12.5A | 10A |
| | Rated Power: | 597.6W | 600W | 600W |
| | Voltage Tolerance: | ±1% | | |
| | Ripple and Noise: | 270mVp-p | 360mVp-p | 360mVp-p |
| | Line Regulation: | ±0.5% | | |
| | Load Regulation: | ±0,5% | | |
| Environmental | Setup, Rise, Hold up Time: | 1500ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load | | |
| | Operating Temperature: | -30°C to 70°C, (Refer to "Deduction curve and tempe rature") | | |
| | Storage Temp., Humidity: | -40°C to 85°C, 10~95% RH | | |
| Protection | Working Humidity: | 20%~90% RH Non-Condensing | | |
| | Over Load: | 105 ~ 135% rated output power | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | |
| | Over Voltage: | 38.4~42.8V | 58.4~68.2V | 65.2~76.8V |
| Protection type : Shut down o/p voltage, re-power on to recover | | | | |
| Over Temperature: | Shut down o/p voltage, recovers automatically after temperature goes down | | | |
| Safety & EMC | Safety Regulations: | EN/EN62368-1, BS EN/EN61558-1 | | |
| | Withstand Voltage: | I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC | | |
| | Isolation Resistance: | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/ 500VDC/25 °C/70% RH | | |
| | EMC Emission: | Compliance to BS EN/EN55032 (CISPR32) | | |
| Class B, BS EN/EN61000-3-2,-3, | | | | |
| Other | MTBF: | 2761.8K hrs min. Telcordia SR-332 (Bellcore) ; | | |
| | Size: | 230x127x40.5(LxWxH) | | |
| | Packaging: | 1.2Kg; 10pcs/12.0Kg/0.021CBM | | |
| Note | 1.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2.Ripple&noise are measured from peak to peak with band width limit of 20MHz(0.1uF and 47uF/50V parallel capacitor under DC output full load, AC nominal input 25 C ambient temperature). 3.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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." 4.Derating may be needed under low input voltages. Please check the derating curve for more details. 6.The ambient temperature derating of 3.5 °C/1000m with fanless models for operating altitude higher than 2000m(6500ft). | | | |

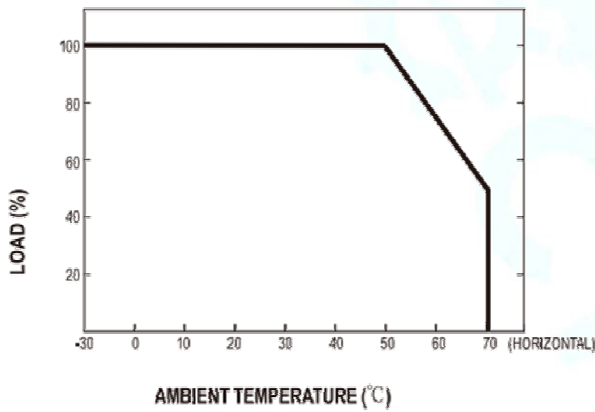
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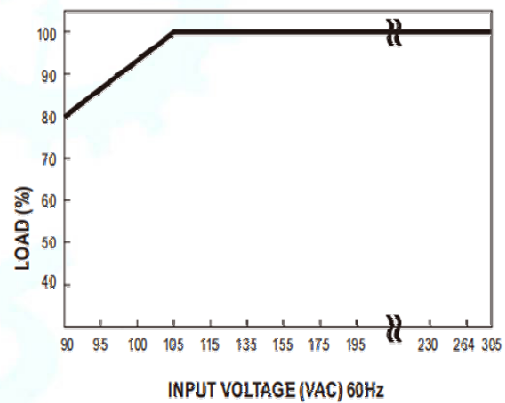
3. Functional Diagram



4. Deduction curve and temperature

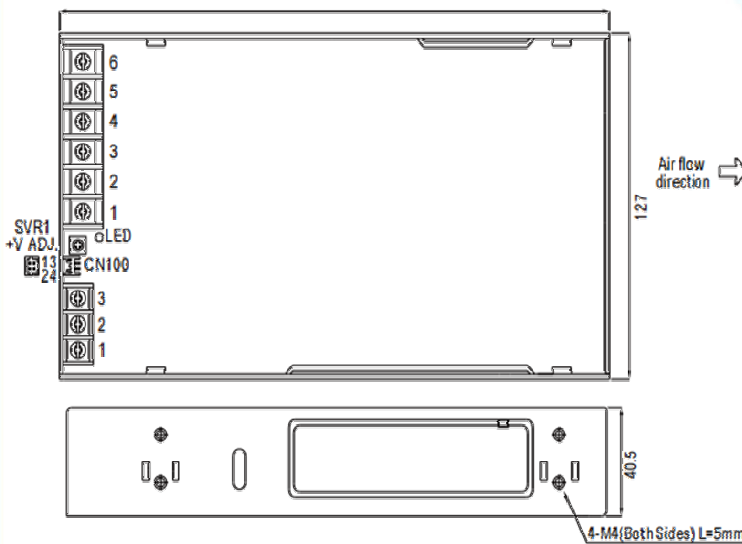


5. Minus output and input voltage curve



6. Dimension and Installation

230



| Terminal Pin Assignment | | | |
|-------------------------|-------------|----------------------------------|-----------------------------------|
| Input | | Output | |
| No. | Description | No. | Description |
| 1 | AC/L | 1-3 | -V |
| 2 | AC/N | 4-6 | +V |
| 3 | FG | | |
| CN100 | | | |
| No. | Description | Mating Housing | Terminal |
| 1 | -S | HRS DF11-4DS or equivalent | HRS DF11-**SC or equivalent |
| 2 | +S | | |
| 3 | RC- | | |
| 4 | RC+ | | |