Single Output Industrial DIN Rail Power Supply Catalog Numbers - ICO-PSH15*x*

| Features |
|---|
| Universal input 85~264VAC (277VAC operational) |
| Protections: Short circuit / Overload / Over voltage |
| Cooling by free air convection |
| DIN Rail TS-35/7.5 or 15 mountable |
| Isolation class II |
| LED indicator for power on |
| No load power consumption <0.3W |
| 100% full load burn-in test |



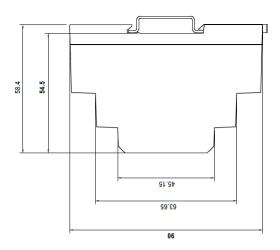
| | Sp | pecifications | | | | | |
|--------------------------------|---|----------------------------|--------------------------|----------------|--|--|--|
| Output | | | | | | | |
| Model | ICO-PSH1505 | ICO-PSH1512 | ICO-PSH1515 | ICO-PSH1524 | | | |
| DC Voltage | 5V | 12V | 15V | 24V | | | |
| Rated Current | 2.4A | 1.25A | 1A | 0.63A | | | |
| Current Range | 0~2.4A | 0~1.25A | 0~1A | 0~0.63A | | | |
| Rated Power | 12W | 15W | 15W | 15.2W | | | |
| Ripple & Noise (max.) (Note 2) | 80mVp-p | 120mVp-p | 120mVp-p | 150mVp-p | | | |
| Voltage Adj. Range | 4.5~5.5V | 10.8~13.8V | 13.5~18V | 21.6~29V | | | |
| Voltage Tolerance (Note 3) | ±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 | 2000ms, 80ms/230VAC 2000ms, 80ms/115VAC at full load | | | | | | |
| Hold Up Time (Typ.) | 30ms/230VAC 12ms/115VAC at full load | | | | | | |
| | | Input | | | | | |
| Voltage Range | 85~264VAC (277VAC operational) 120~370VDC (390VDC operational) | | | C operational) | | | |
| Frequency Range | 47~63Hz | | | | | | |
| Efficiency (Typ.) | 80% | 85% | 85.5% | 86.00% | | | |
| AC Current (Typ.) | 0.5A/115VAC 0.25A/230VAC | | | | | | |
| Inrush Current (Typ.) | | Cold Start 25A/115V | /AC 45A/230VAC | | | | |
| | | Protection | | | | | |
| Overload ^(Note 4) | | 110~145% rate | ed output power | | | | |
| - | Protection type: Constant current limiting, recovers automatically after fault is removed | | | | | | |
| Over Voltage | 5.75~6.75V | 14.~16.2V | 18.8~22.5V | 30~36V | | | |
| | Protect | tion type: shut off o/p vo | bltage, clamping by zene | er diode | | | |

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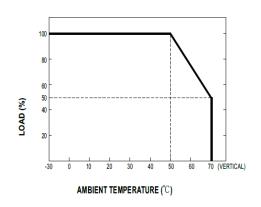
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| Environment | | Others | | | |
|--------------------------|--|-------------------------------|---|--|--|
| Working Temp | -30~+70°C (Refer to derating curve) | MTBF | 1166K hrs min. MIL-HDBK-217F (25°C) | | |
| Working Humidity | 20~90% RH (non-condensing) | Dimension | 17.5 x 90 x 54.5mm (WxHxD) | | |
| Storage Temp Humidity | -40~+85°C, 10~95% RH (non-condensing) | Packing | 78g;160 pcs/13.5Kg/1.19CUFT | | |
| Temp. Coefficient | <u>+</u> 0.03%/°C (0~50°C) RH (non-condensing) | Safety & | & EMC (Note 5) | | |
| Vibration | 10 ~ 500Hz, 2G 10min/1cycle, period for 60 min. each along X,Y,Z axes; Mounting: Compliance to IEC60068-2-6 | Safety Standards | UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1 approved; Design refer to TUV EN60950-1 | | |
| Operating Altitude | 2000 meters | Withstand Voltage | I/P-O/P:4KVAC | | |
| Over Voltage Category | III; According to EN61558, EN50178, EN60664-1, | Isolation Resistance | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH | | |
| | EN62477-1; altitude up to 2000 meters | EMC Conduction & Radiation | Compliance to EN55032 (CISPR32) EN55022 , Class B | | |
| | | Harmonic Current | Compliance to EN61000-3-2, Class A | | |
| | | EMS Immunity | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55035, EN55024, EN61000-6-2, EN61204-3 | | |

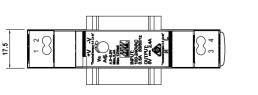
| ΝΟΤΙ | ES: |
|------|---|
| | All parameters NOT specifically mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. |
| | 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. |
| | 3. Tolerance: includes set up tolerance, line regulation and load regulation. |
| | Constant current limiting operation within 50%~100% rated output voltage; protection type for short circuit is hiccup mode and will recover automatically after fault condition is removed. |
| | 5. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." |

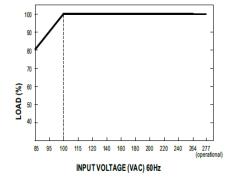


Derating Curve



Output Derating vs Input Voltage





Block Diagram

