

Datenblatt / Data Sheet

Netzteil IP64 12V DC / 24V DC

Power supply 12V DC / 24V DC



Technische Daten / technical data:

| Bezeichnung / Description | Eigenschaft / Characteristic | |
|---|--|------------------------------|
| | NT64012030 | NT64024030 |
| Artikelnummer / Item no. | | |
| DC Voltage in Volt (V): | 12 V | 24 V |
| CONSTANT CURRENT REGION <small>Note.6</small> | 8.4 ~ 12V | 16.8 ~ 24V |
| Rated Current (A): | 2.5 A | 1.25 A |
| Current Range in Ampere (A): | 0 ~ 2.5 A | 0 ~ 1.25 A |
| Rated Power in Watt (W): | 30 W | |
| Ripple & Noise (max.): <small>Note.2</small> | 2Vp-p | 2.6Vp-p |
| Voltage ADJ. Range (VoADJ) in Volt (V): <small>Note.5</small> | -5% ~ 10%. Can be adjusted by internal potential meter SVR1 | |
| CURRENT ADJ. RANGE: <small>Note.5</small> | 3% ~ -25%. Can be adjusted by internal potential meter SVR2 | |
| Voltage Tolerance in %: <small>Note.3</small> | ± 10 % | |
| Line Regulation in %: | ± 3.0 % | |
| Load Regulation in %: | ± 5.0 % | |
| Setup Time: | 1500ms / 230VAC | 3000ms / 115VAC at full load |
| Voltage Range: | 90 ~ 264VAC | 127 ~ 370VDC |
| Frequency Rang in Hz: | 47 ~ 63 Hz | |
| Power Factor (Typ.): | PF ≥ 0.9 at 75 ~ 100% load, 115VAC / 230VAC | |
| Efficiency in %: | 83% | 85% |
| AC Current (Typ.): | 0.4A/115VAC | 0.2A/230VAC |
| Inrush Current (max.): | 40A/230VAC | |
| Leakage Current: | <0.5mA / 240 VAC | |
| Over Current: <small>Note.4</small> | 100 ~ 110% | |
| Short Circuit: | Protection type : Constant current limiting, recovers automatically after fault condition is removed | |
| Over Voltage in Volt (V): | Hiccup mode, recovers automatically after fault condition is removed. | |
| | 14 ~ 16 V | 27 ~ 34 V |
| | Protection type : Shut down o/p voltage, re-power on to recover | |
| Over Temperature in °C: | 95°C ±10°C (TSW1) | |
| | Protection type : Shut down o/p voltage, re-power on to recover | |
| Working Temp: | -30 ~ +50°C <i>Refer to output load derating curve</i> | |
| Working Humidity: | 20 ~ 95 % RH non condensing | |
| Storage Temp., Humidity: | -40 ~ +80°C, 10 ~ 95 % RH | |
| Temp.Coefficient: | ± 0.06 % / °C (0 ~ 50°C) | |
| Vibration: | 10 ~ 500 Hz, 2G 12min. 1cycle, period for 72min. each along X, Y, Z axes | |

Technische Änderungen und Irrtümer vorbehalten. Subject to technical changes and errors.

Vorläufig / preliminarily

Datum / Date: 11.2009 BS

Revision: 1.1

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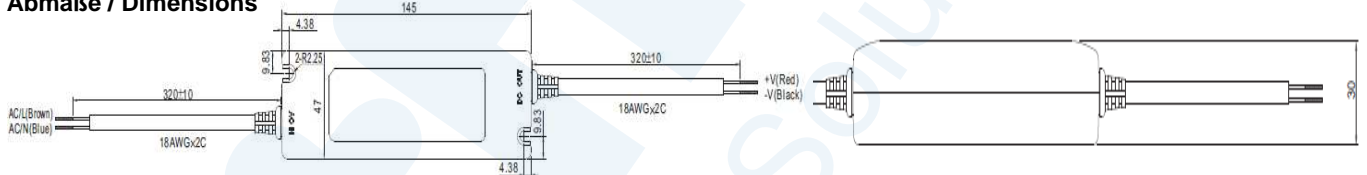
| Bezeichnung / Description | Eigenschaft / Characteristic | |
|-----------------------------|--|------------|
| | NT64012030 | NT64024030 |
| Artikelnummer / Item no. | | |
| Safety Standards: | TUV EN61347-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved | |
| Withstand Voltage: | I/P-O/P:3.75KVAC | |
| Isolation Resistance: | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | |
| EMI Conduction & Radiation: | Compliance to EN55015 | |
| Harmonic Current: | Compliance to EN61000-3-2 Class C (pin \geq 25W), Class D (>70% load) ; EN61000-3-3 | |
| EMS Immunity: | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level, criteria A | |
| MTBF: | 621.4Khrs min. MIL-HDBK-217F (25°C) | |
| Dimension in mm (L*W*H): | 145x47x30 mm | |
| Packing : | 0.22Kg; 60pcs/14.2Kg/1.25CUFT | |



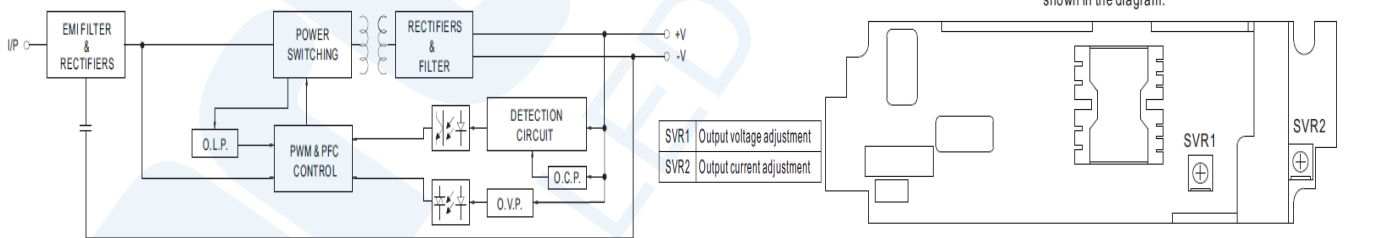
Note:

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 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. Direct connecting to LEDs is not suggested for models with .RIPPLE & NOISE. > 10% and using additional drivers is highly recommended.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Please refer to OLP characteristics.
5. Output voltage can be adjusted through the SVR1 on the PCB; limit of output constant current level can be adjusted through the SVR2 on the PCB.
6. Constant current operation region is within 70% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.

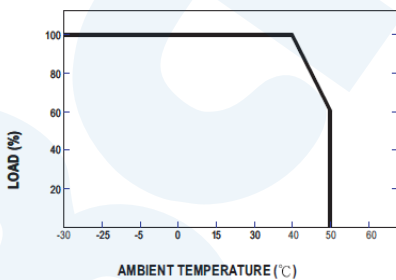
Abmaße / Dimensions



Blockschaldbild / block diagram fosc : 39KHz(115VAC)
53KHz(230VAC)



Derating-Kurve / derating curve



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