

Datenblatt / Data Sheet

Netzteil 24V DC - 96W

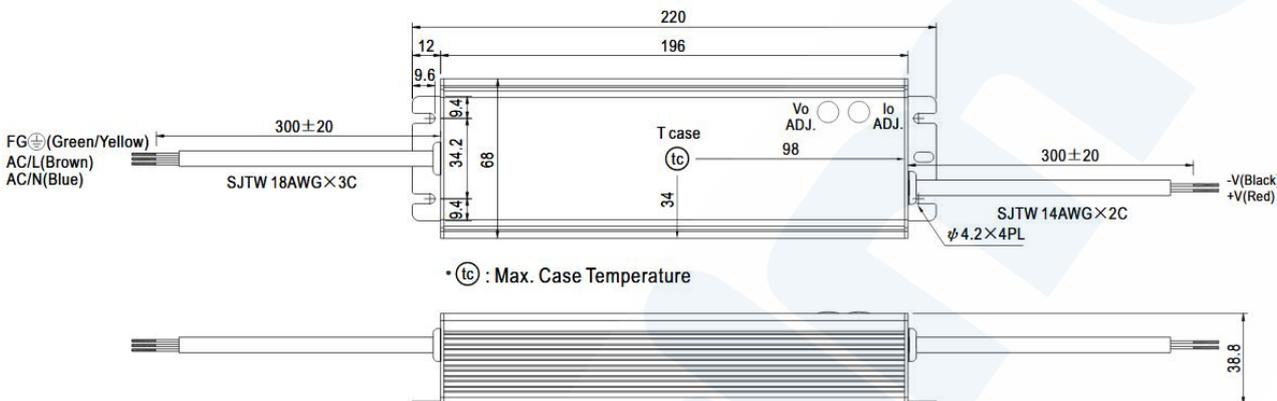
Power supply 24V DC - 96W



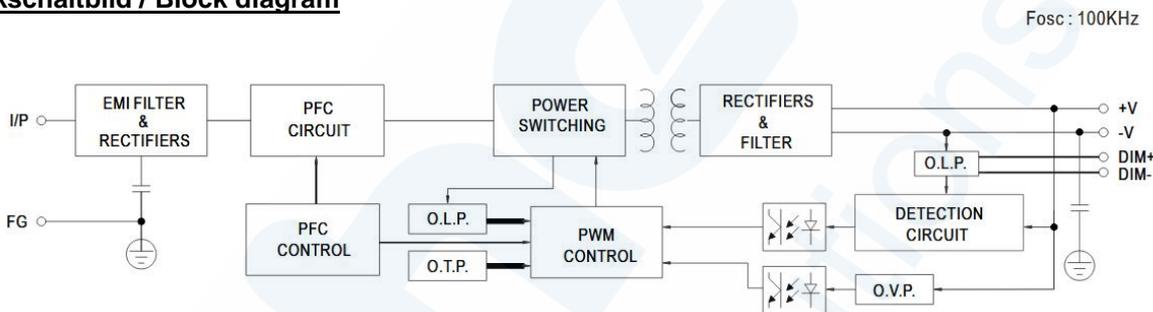
| Bezeichnung / Description | Eigenschaften / Characteristics | |
|--|--|--|
| Artikelnummer / Item no. | 66000216 | |
| Gleichspannung / DC voltage | 24V | |
| Konstantstrombereich / Constant current region 4) | 12-24V | |
| Nennstrom / Rated current | 4A | |
| Nennleistung / Rated power | 96W | |
| Restwelligkeit / Ripple & Noise 2) | 150mV p-p | |
| Einstellbereich Ausgangsspannung / Voltage adj. range 6) | 22-27V | |
| Einstellbereich Ausgangsstrom / Current adj. range | 2.5-4.0A | |
| Spannungstoleranz / Voltage tolerance 3) | durch internes Potentiometer einstellbar / can be adjusted by internal potentiometer | |
| Leistungsregelung / Line regulation | ± 1.0% | |
| Lastregelung / Load regulation | ± 0.5% | |
| Setup-, Anstiegszeit / Setup, rise time 8) | 500ms, 50ms | |
| Pufferzeit (typ.) / Hold up time (typ.) | bei Volllast / @ full load | |
| Spannungsbereich / Voltage range 5) | 16ms bei Volllast / 16ms @ full load | |
| Frequenzbereich / Frequency range | 90 ~ 305V AC / 127 ~ 431V DC | |
| Leistungsfaktor / Power factor | 47 ~ 63Hz | |
| Effizienz (typ.) / Efficiency (typ.) | 115VAC: 0.98 / 230VAC: 0.95 | |
| Wechselstrom / AC current | 93% | |
| Einschaltstrom / Inrush current | 1.2A/115V AC - 0.55A/230V AC | |
| Max. Anzahl Netzteile an 16A Schutzschalter Max. no. on 16A circuit breaker | Kaltstart 60A/230V AC | |
| Kriechstrom / Leakage current | 4 (Typ B) / 8 (Typ C) @230V AC | |
| Überlast / Overload | <0.75mA/277V AC | |
| Kurzschluß / Short circuit | Schutz Protection | 95 - 106% |
| Überspannung / Overvoltage | | Schutzart : Ausschaltung ; Wiederherstellung nach Fehlerbehebung |
| Überhitzung / Over temperature | | Schutzart : Ausschaltung ; Wiederherstellung nach Fehlerbehebung |
| Arbeitstemperatur / Working temperature | | Schutzart : Ausschaltung, Wiederherstellung nach Absinken d. Temp |
| Feuchtigkeit / Working humidity | Umfeld Environment | 28-34V |
| Lagertemp. und -feuchtigkeit / Storage temp. , humidity | | Schutzart : Ausschaltung, Wiederherstellung nach Fehlerbehebung |
| Temp. coefficient / Temperaturkoeffizient | | Schutzart : Ausschaltung, Wiederherstellung nach Absinken d. Temp |
| Vibration / Vibration | | -40°C ~ +90°C |
| Sicherheitsstandards / Safety standards 7) | Schutz Safety | 20 ~ 95% nicht kondensierend |
| Spannungsfestigkeit / Withstand voltage | | -40°C ~ +80°C, 10 ~ 95% RH |
| Isolationswiderstand / Insulation resistance | | ± 0.03%/°C (0 ~ 50°C) |
| EMV Emission / EMC emission | | 10 ~ 500Hz, 5G 12 min. 1 Zyklus, 72 Min. Dauer. entlang der X,Y,Z Achsen |
| EMV Störfestigkeit / EMC immunity | | CSA C22.2 No. 250.0-08; TUV EN61347-1, EN61347-2-13, J61347-1, J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1 |
| Mittlere Lebensdauer / MTBF | I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC | |
| Abmessungen / Dimensions | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH | |
| Gewicht / Weight | Einhaltung von EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (@ load ≥ 60%) ; EN61000-3-3 | |
| | Einhaltung von EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV) | |
| | 192.2K hrs min. MIL-HDBK-217F (25°C) | |
| | 220 x 68 x 39mm | |
| | 1120g | |

**Abmessungen
 Dimensions**

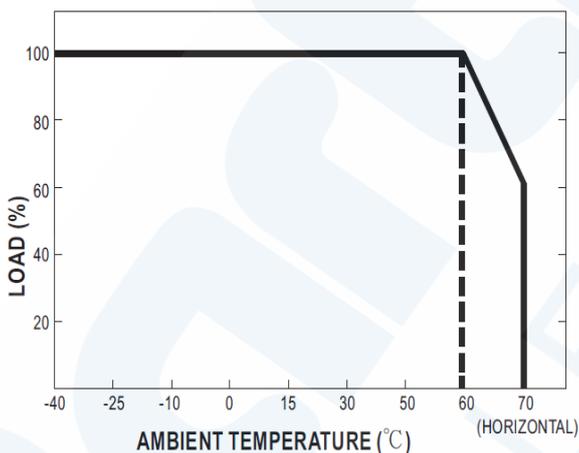
※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
 (Can access by removing the rubber stopper on the case.)



Blockschaltbild / Block diagram

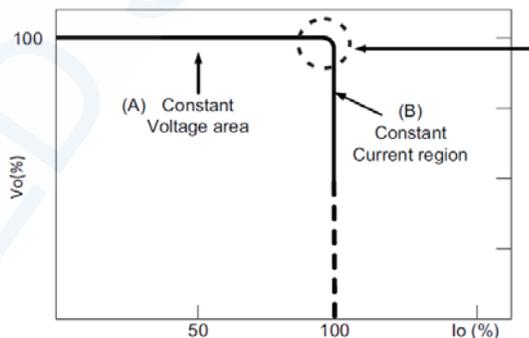


Derating-Kurve / Derating curve



Betriebsarten LEDs / Driving methods of LED module

There are two major kinds of LED drive method "direct drive" and "with LED driver". A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs. The LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Typical LED power supply I-V curve

Anmerkungen / Notes

1. All parameters NOT specially 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.
4. Please refer to "DRIVING METHODS OF LED MODULE".
5. Derating may be needed under low input voltages. Please check the static characteristics for more details.
7. Safety and EMC design refer to EN60598-1, subject CNS15233, GB7000.1, FCC part18.
8. 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.