

Datenblatt / Data Sheet

Netzteil 48V DC - 96W

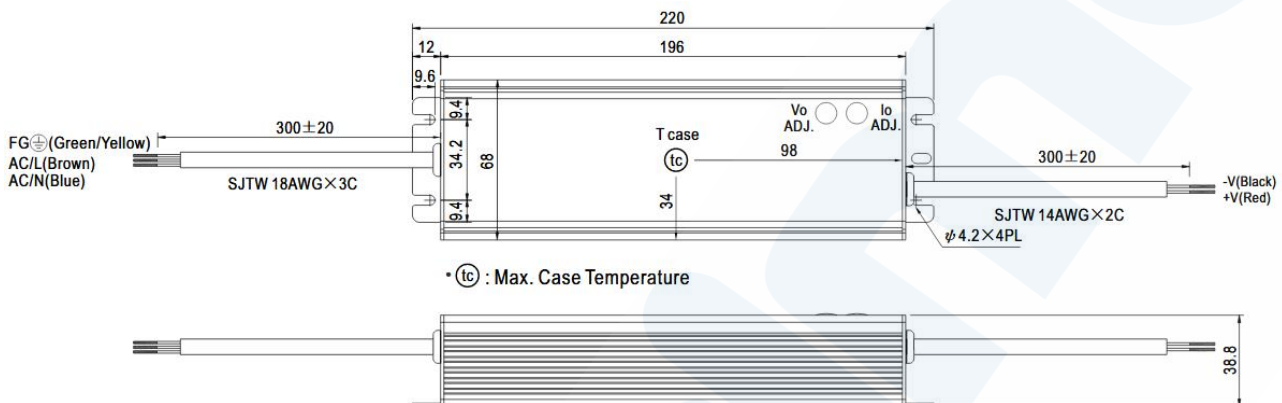
Power supply 48V DC - 96W



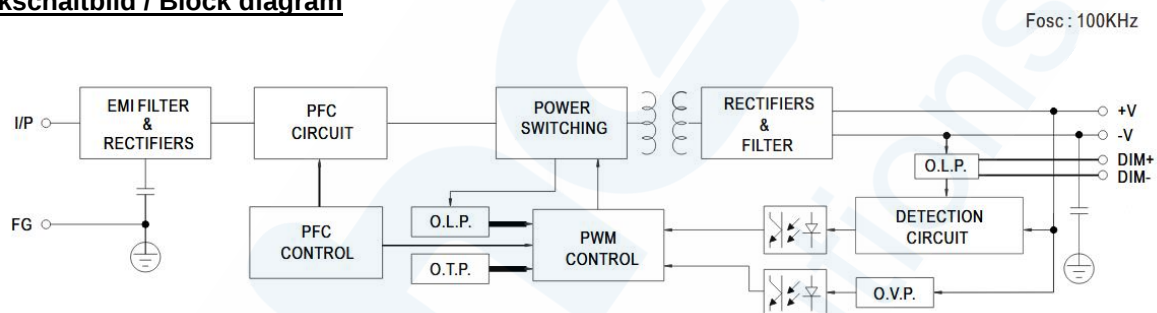
Bezeichnung / Description	Eigenschaften / Characteristics	
Artikelnummer / Item no.	Ausgang Output	66000221
Gleichspannung / DC voltage		48V
Konstantstrombereich / Constant current region 4)		24-48V
Nennstrom / Rated current		2A
Nennleistung / Rated power		96W
Restwelligkeit / Ripple & Noise 2)		200mV p-p
Einstellbereich Ausgangsspannung / Voltage adj. range 6)		43-53V
Einstellbereich Ausgangsstrom / Current adj. range		1.25-2.0A
		durch internes Potentiometer einstellbar / can be adjusted by internal potentiometer
Spannungstoleranz / Voltage tolerance 3)		± 1.0%
Leistungsregelung / Line regulation		± 0.5%
Lastregelung / Load regulation		± 0.5%
Setup-, Anstiegszeit / Setup, rise time 8)		500ms, 50ms bei Volllast / @ full load
Pufferzeit (typ.) / Hold up time (typ.)		16ms bei Volllast / 16ms @ full load
Spannungsbereich / Voltage range 5)	Eingang Input	90 ~ 305V AC / 127 ~ 431V DC
Frequenzbereich / Frequency range		47 ~ 63Hz
Leistungsfaktor / Power factor		115VAC: 0.98 / 230VAC: 0.95
Effizienz (typ.) / Efficiency (typ.)		93%
Wechselstrom / AC current		1.2A/115V AC - 0.55A/230V AC
Einschaltstrom / Inrush current		Kaltstart 60A/230V AC
Max. Anzahl Netzteile an 16A Schutzschalter Max. no. on 16A circuit breaker		4 (Typ B) / 8 (Typ C) @230V AC
Kriechstrom / Leakage current	Schutz Protection	<0.75mA/277V AC
Überlast / Overload		95 - 106%
Kurzschluß / Short circuit		Schutzart : Ausschaltung ; Wiederherstellung nach Fehlerbehebung
Überspannung / Overvoltage		Schutzart : Ausschaltung ; Wiederherstellung nach Fehlerbehebung
Überhitzung / Over temperature	Umfeld Environment	54-63V
Arbeitstemperatur / Working temperature		Schutzart : Ausschaltung, Wiederherstellung nach Fehlerbehebung
Feuchtigkeit / Working humidity		Schutzart : Ausschaltung, Wiederherstellung nach Absinken d. Temp
Lagertemp. und -feuchtigkeit / Storage temp. , humidity		-40°C ~ +90°C
Temp. coefficient / Temperaturkoeffizient		20 ~ 95% nicht kondensierend
Vibration / Vibration	Schutz Safety	-40°C ~ +80°C, 10 ~ 95% RH
Sicherheitsstandards / Safety standards 7)		± 0.03%/°C (0 ~ 50°C)
Spannungsfestigkeit / Withstand voltage		10 ~ 500Hz, 5G 12 min. 1 Zyklus, 72 Min. Dauer. entlang der X,Y,Z Achsen
Isolationswiderstand / Insulation resistance		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
EMV Emission / EMC emission		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
EMV Störfestigkeit / EMC immunity		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
Mittlere Lebensdauer / MTBF		Einhaltung von EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (@ load≥60%) ; EN61000-3-3
Abmessungen / Dimensions		Einhaltung von EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)
Gewicht / Weight		192.2K hrs min. MIL-HDBK-217F (25°C)
		220 x 68 x 39mm
		1120g

Abmessungen Dimensions

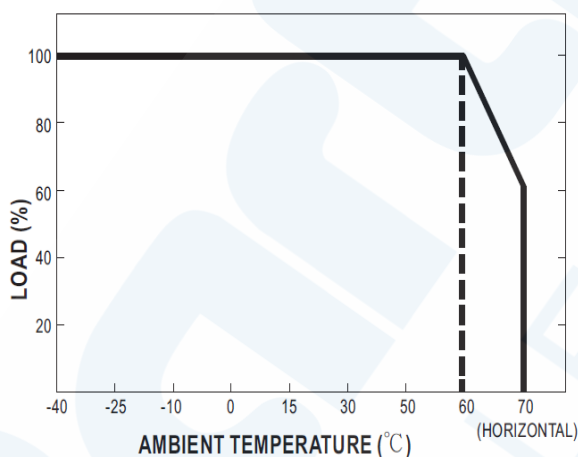
※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
 (Can access by removing the rubber stopper on the case.)



Blockschaltbild / Block diagram

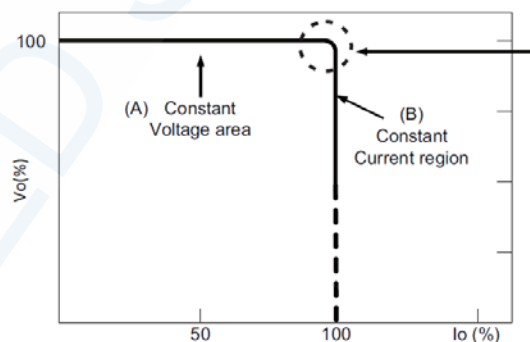


Derating-Kurve / Derating curve



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.