

Datenblatt / Data Sheet

Netzteil IP64 12V DC / 24V DC

Power supply 12V DC / 24V DC



Technische Daten / technical data:

Bezeichnung / Description	Eigenschaft / Characteristic		
Artikelnummer / Item no.		NT64012060	NT64024096
DC Voltage in Volt (V):	Ausgang (Output)	12 V	24 V
CONSTANT CURRENT REGION Note.7		9 ~ 12V	18 ~ 24V
Rated Current (A): Note.6		5 A	4 A
Rated Power in Watt (W): Note.6		60 W	96 W
Ripple & Noise (max.): Note.2		150mVp-p	
Voltage ADJ. Range (VoADJ) in Volt (V): (SVR1)		10.2 ~ 12V	20.4 ~ 24V
CURRENT ADJ. RANGE: (SVR2)		3.75 ~ 5 A	3 ~ 4 A
Voltage Tolerance in %: Note.3		± 3 %	
Line Regulation in %:		± 1.0 %	
Load Regulation in %:		± 2.0 %	
Setup Time:	Eingang (Input)	1200ms, 80ms/230VAC 1200ms, 80ms/115VAC at full load	
Hold Up Time (Typ.):		60ms/230VAC 30ms/115VAC at full load	
Voltage Range: Note.5		90 ~ 264VAC	127 ~ 370VDC
Frequency Rang in Hz:		47 ~ 63 Hz	
Power Factor (Typ.):		PF>0.95/230VAC PF>0.95/115VAC at full load PF≥0.9 at 75 ~ 100% load	
Efficiency (Typ.) in %:		83%	87%
AC Current (Typ.):		12V:0.8A/115VAC 0.4A/230VAC 15V:0.9A/115VAC 0.45A/230VAC 20V ~ 48V:1.1A/115VAC 0.55A/230VAC	
Inrush Current (Typ.):		Cold Start 40A/230VAC	
Leakage Current:		<0.75mA / 240 VAC	
Over Current: Note.4	Schutz (Protection)	95 ~ 102 %	
Short Circuit: Note.4		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.	
		13 ~ 16 V	27 ~ 34 V
		Protection type : Shut down o/p voltage, re-power on to recover	
Over Temperature in °C:		90°C ± 10°C (RTH2)	
	Umfeld (Environment)	Protection type : Shut down o/p voltage, re-power on to recover	
Working Temp:		-30 ~ +50°C	
Working Humidity:		Refer to output load derating curve	
Storage Temp., Humidity:		20 ~ 95 %	
Temp.Coefficient:		RH non condensing	
Vibration:		-40 ~ +80°C, 10 ~ 95 % RH	
		± 0.03 % / °C (0 ~ 50°C)	
		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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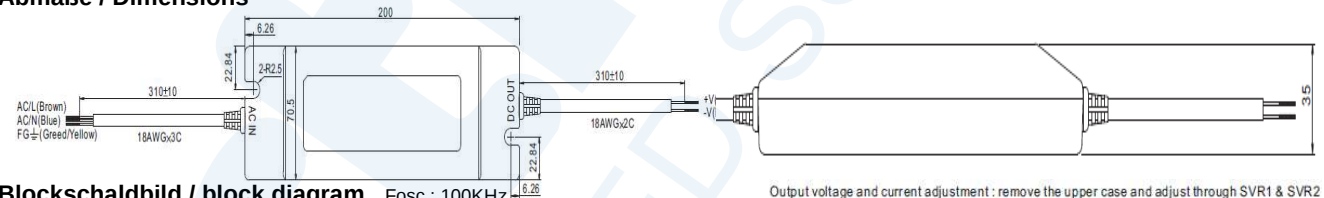
Bezeichnung / Description	Eigenschaft / Characteristic	
Artikelnummer / Item no.	NT64012060	NT64024096
Safety Standards: Note.8	UL1310 Class 2, EN61347-1, EN61347-2-13 independent, UL60950-1, TUV EN60950-1, UL879 (listed in UL Sign Components Manual (SAM)) CAN/CSA C22.2 No. 223-M91(except for 48V), IP64 approved	
Withstand Voltage:	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC	
Isolation Resistance:	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH	
EMI Conduction & Radiation:	Compliance to EN55015, EN55022 (CISPR22) Class B	
Harmonic Current:	Compliance to EN61000-3-2 Class C (>75% load) ; EN61000-3-3	
EMS Immunity:	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61547, EN55024, light industry level (surge 4KV), criteria A	
MTBF:	303.1Khrs min. MIL-HDBK-217F (25°C)	
Dimension in mm (L*W*H):	200x70.5x35 mm	
Packing :	0.22Kg; 60pcs/14.2Kg/1.25CUFT	



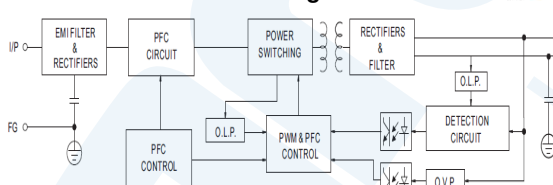
Note:

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.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Please refer to OLP characteristics.
5. Derating may be needed under low input voltage. Please check the derating curve for more details.
6. This is the maximum possible output current and power. Over load protection may be activated slightly below this level to comply with the requirement of UL1310 class 2.
7. Constant current operation region is within 75% ~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.
8. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.

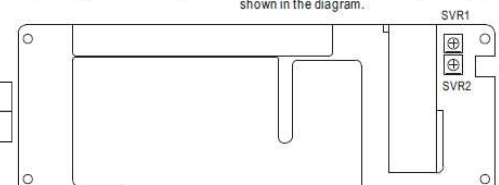
Abmaße / Dimensions



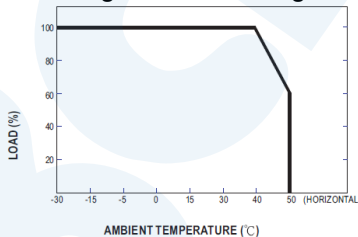
Blockschaldbild / block diagram



Output voltage and current adjustment : remove the upper case and adjust through SVR1 & SVR2 shown in the diagram.



Derating-Kurve / derating curve



Statische Eigenschaften / static Characteristics

