



Switch Mode Power Supply

NFBG 1311G1001

(UNOTEC 2405 N)

1 Short Description

The **UNOTEC 2405N** is a switch mode power supply of the latest generation, which is characterized by its high efficiency and minimum power loss. It features Power Boost and Hyper Boost function. The **UNOTEC N** can be operated redundantly. Operation in series (2 units max.) and parallel operation (up to 5 devices) are possible. Because of modern architecture, it can work in temperatures up to 60 ° C without load reduction.

2 Technical Data

Input	
Nominal voltage	100-240 VAC -15% +10% 100-230 VDC -10 % + 8%
Network	TN-S, TN-C, TT, IT mains
Nominal frequency	50 / 60 Hz ±6 %
Nominal current	1,3 A @ 100 V AC 0,6 A @ 240 V AC
Efficiency	94,5 %
Power losses	6,88 W
No-load power losses	1,8 W
Recommended external fuse max	20 A (T) in building installation
Recommended circuit breaker	B6 or C4
Output	
Voltage	24 VDC
Voltage adjustable	24-28 VDC / potentiometer in front plate
Residual Ripple	< 50 mV eff / rms
Spikes	< 200 mV ss / p-p
Nominal current	5 A (up to 60 °C)
Input failure bridging	≥ 30 ms
“Power boost” current	7,5 A ≤. 4 s without voltage variation
“Hyper boost” current	17,5 A ≤ 20 ms
Short circuit current	After “power boost” follows constant current: 5 A
Parallel connection	5 units
Serial operation	2 units
Output overload and short-circuit protected. With overload the output voltage begins to reduce. With over temperature the power supply switches off.	

Technical Datasheet

UNOTEC 2405 N



J. Schneider
Elektrotechnik

Connection Input/Output	
Type of connection	Spring clamp, push-in
Cable diameter stable	0,75–4 mm ² / AWG 18–12
Cable diameter flexible	0,75–2,5 mm ² / AWG 18–14
flexible with ferrule, with plastic sleeve	0,75–1.5 mm ² / AWG 18–16
flexibel with ferrule, without plastic sleeve	0,75–2.5 mm ² / AWG 18–14
Connection Alarm	
Type of connection	Spring clamp, push-in
Cable diameter stable	0,25–4 mm ² / AWG 24–12
Cable diameter flexible	0,25–2,5 mm ² / AWG 24–14
flexible with ferrule, with plastic sleeve	0,25–1.5 mm ² / AWG 24–16
flexibel with ferrule, without plastic sleeve	0,25–2.5 mm ² / AWG 24–14
Classification of climatic environmental conditions	Class 3K3 according to EN 60721
Relative humidity	5 ... 95%, No condensation
Environmental temperature	-25 ... +60 °C
Storage temperature	-40 ... +85 °C
MTBF according to DIN EN 61709:1999-01, SN 29500, DIN EN ISO 13849-1:2008-12	> 506 805h @ 40°C
Housing	
Dimensions	123 x 50 x 138 mm (H x W x D)
Weight	0,66 kg
Protection class	I
Protection class of the housing	IP 20
Pollution degree	2
Fixation	Snap-on mounting on DIN-rail
Fitting position	Vertical
Material	Metal

3 Norms and Standards

IEC / EN60950-1 SELV
EN 61204-3
EN 55011 Klasse B, Gruppe 1
EN 61000-3-2
EN 61000-3-3
EN 61000-4-2 ESD
EN 61000-4-3 HF-Feld
EN 61000-4-4 Burst
EN 61000-4-5 Surge
EN 61000-4-6 HF-asymm
EN 61000-4-11

CE-marking in compliance with EMC directive 2014/30/EU and low-voltage directive 2014/35/EU and Directive 2011/65/EU (RoHS Directive) of THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (re-cast)