Technical Datasheet
UNO*TEC* 2406 N

J. Schneider Elektrotechnik

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Switch Mode Power Supply
NFPG 1311G1001
(**UNO***TEC* **2406 N**)

1 Short Description

The **UNO***TEC* 2406 N 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 **UNO***TEC* 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 100-230 VDC
Voltage range	85-265 VAC 90-250 VDC
Network	TN-S, TN-C, TT, IT mains
Nominal frequency	50 / 60 Hz ±6 %
Nominal current	1,3 A @ 100 V AC/DC 0,6 A @ 230 V AC/DC 0,6 A @ 240 V AC
Efficiency	94,5 %
Power losses	6,88 W
No-load power lossos	1,8 W
Recommended external fuse max	32 A (T) in building installation
Recommended circuit breaker	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)
Maximum output current	6 ... 5.1 A @ 24 ... 28 VDC (up to 45 °C)
Ride-through	≥ 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
Switching in parallel	5 devices
Switching in series	2 devices
Output overload and short-circuit protected. With overload the output voltage begins to reduce. With over temperature the power supply switches off.	

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Connection Input	
Type of connection	Spring clamp, push-in 0,75 - 2,5 mm²
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Type of connection	Spring clamp, push-in 0,75 - 2,5 mm²
Connection Alarm	
Type of connection	Spring clamp, push-in 0,25 - 2,5 mm²
Classification of climatic environmental conditions	Class 3K3 according to EN 60721
Relative humidity	5 ... 95%, no condensation
Environmental temperature	-40 ... +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

EN 61204-3
EN 55011 class B, group 1
EN 61000-3-2
EN 61000-3-3
EN 61000-4-2 ESD
EN 61000-4-3 HF-field
EN 61000-4-4 Burst
EN 61000-4-5 Surge
EN 61000-4-6 HF-asymm
EN 61000-4-11
IEC 60068-2-6 Test Fc: Vibration
IEC 60068-2-27 Test Fa: Shock
EN 60204-1
EN 61010-1
EN 61010-2-201
EN 60204-1
SEMI F47 – 0706
EN 60664-1 overvoltage category: II

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 8th of June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast)