■ *Main Features*

- High efficiency and compact size
- Plastic enclosure, circuit breaker shape
- Overload 150%
- Up to 70°C operating temperature

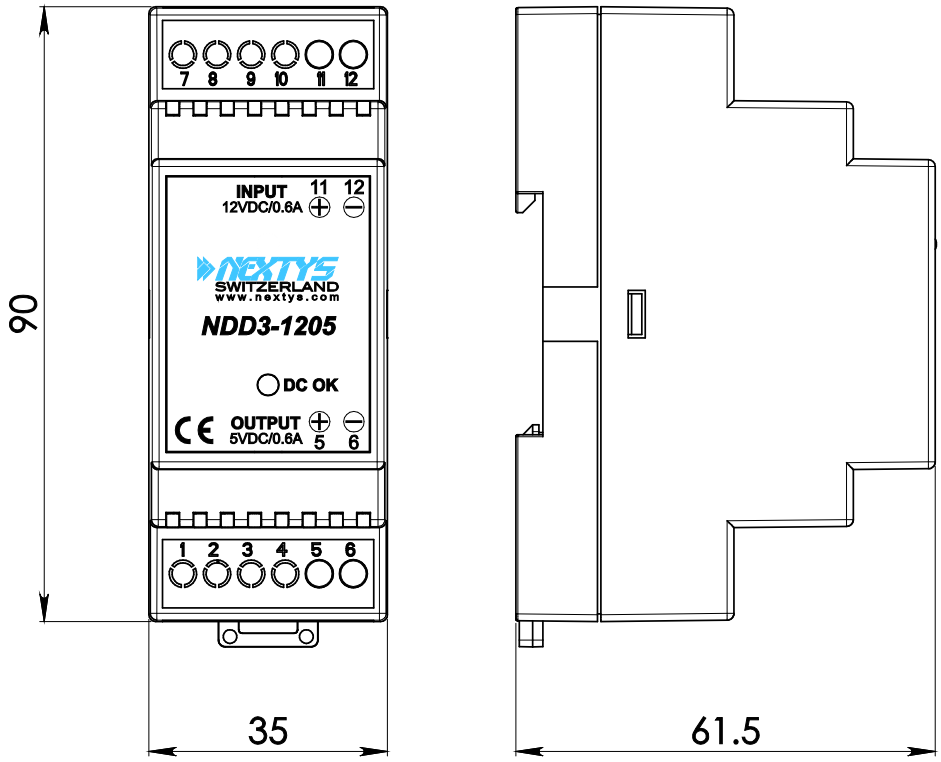
TECHNICAL DATA

Model type	NDD3-1205	
OUTPUT DATA		
Rated voltage	5Vdc ± 3% max.	
Continuous current	0.6A	
Overload limit	0.85A	
Short circuit peak current	1.1A	
Load regulation	≤ 1%	
Ripple & Noise[1]	≤ 30mVpp	
Hold up time	≥ 10ms	
Protections	Overload/short circuit: Hiccup mode	
Status Signals	**DC OK** - green LED	
Parallel connection	Possible for redundancy (with external ORing module)	
INPUT DATA		
Input DC rated voltage	Nominal: 12Vdc Range: 9…18Vac	
Input DC rated current	0.6A	
Internal protection fuse	Fuse 1.25AT (not user replaceable)	
GENERAL DATA		
Efficiency	> 68%	
Dissipated power	< 1.4W	
Operating temperature[2]	- 40°C…+ 70°C	
Derating	- 0.08W/°C over 60°C	
Storage temperature	- 40°C...+ 80°C	
Humidity	5…95% r.H. non condensing	
Life time expectation	211'118h (24.1 years) at 25°C ambient full load	
MTBF	▪ MIL-HDBK-217F	> 600'000h at 25°C ambient full load
Overvoltage category Pollution degree	▪ EN50178 ▪ IEC60664-1	I 2
Protection Class	▪ Class	II
Input / output isolation	1.5kVdc	
Safety Standards	▪ UL508 ▪ EN60950 ▪ EN50178	(reference) (reference) (reference)
EMC Emission	▪ EN55011 (CISPR11) ▪ EN55022 (CISPR22)	Class B Class B
EMC Immunity	▪ EN61000-4-2 ▪ EN61000-4-3 ▪ EN61000-4-4 ▪ EN61000-4-5 ▪ EN61000-4-11	Level 3 Level 3 Level 4 Level 2 Level 2
Protection degree	▪ EN60529	IP20
Vibration sinuosoidal	▪ IEC 60068-2-6	(5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z)
Shock	▪ IEC 60068-2-27	(30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)
Connection terminals	2.5mm², screw type header (24...12AWG)	
Case material	Plastic, Flame retardant UL94 V-0	
Weight	0.10kg	
Size (W x H x D)	35.0 x 90.0 x 61.5mm	

1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor.
2) Start-up type tested: - 40°C, possible at nominal voltage with load deration.

Notes:
- Technical parameters are typical, measured in laboratory environment at 25°C and 12Vdc, at nominal values, after minimum 5 minutes of operation.
- Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
- Data may change without prior notice in order to improve the product.

DIMENSIONS



CONNECTION

Input Connection:

- + = Positive DC (11)
- - = Negative DC (12)

Output Connection:

- + = Positive DC (5)
- - = Negative DC (6)