







■ Main Features

- High efficiency and compact size
- Wide input voltage range
- High operating temperature (up to 70°C)
- Designed according to EN50121 for railway application

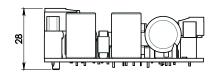
TECHNICAL DATA	
Model type	NPSR10-5
OUTPUT DATA	
Rated voltage	5.1Vdc
Adj. output voltage range	5.1Vdc Fixed
Continuous current	2.0A
Overload limit	2.5A
Short circuit peak current	7A for 60ms
Load regulation	≤ 0.5%
Ripple & Noise ¹	≤100mVpp
Hold up time	≥ 50ms
Protections	 Overload/short circuit: Hiccup mode Thermal protection Input undervoltage lockout (64Vdc ±2V) Output overvoltage
Output overvoltage protection	≥ 6.2Vdc
Status Signals	DC OK - green LED
Parallel connection	Possible for redundancy (with external ORing module)
INPUT DATA	
Input DC rated voltage	Nominal: 110Vac Range: 66154Vac
Input DC rated current	0.3A
Inrush peak current	≤ 5A
Internal protection fuse	Fuse 0.8AT (not user replaceable)
GENERAL DATA	rase own (not user replacease)
Efficiency	>78%
Dissipated power	< 3W
Operating temperature ²³	- 40°C+ 85°C
Derating	- 0.13W/°C over 70°C
Storage temperature	- 40°C+ 80°C
Humidity	595% r.H. non condensing
Overvoltage category Pollution degree	■ IEC60664-1 2
Input / output isolation	2.2kVdc
Input / ground isolation	1.5kVdc
Output / ground isolation	0.71kVdc
Safety Standards	EN50121 (reference)
EMC Emission	■ EN50121-3-2 Class A
EMC Immunity	 EN61000-4-2 Level 3 EN61000-4-3 Level 2 EN61000-4-4 Level 2 EN61000-4-5 Level 2 EN61000-4-11 Level 2
Protection degree	■ EN60529 IP00
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 Input terminals	2.5mm², screw type pluggable (2412AWG)
Connection Output terminals	
	1.5mm², screw type pluggable (2416AWG)
Case material	Aluminum
Weight	65g
Size (W x H x D)	70.0 x 28.0 x 50.0mm
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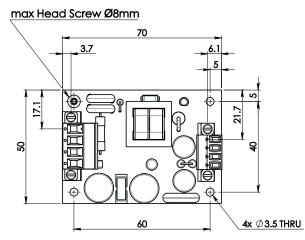
- 1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor. 2) Start-up type tested: 40°C, possible at nominal voltage with load deration.
- 3) At +85°C the unit can work at full load for 10min Max.

Notes:

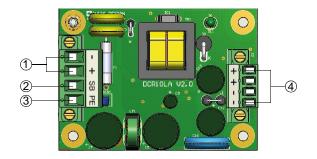
- Technical parameters are typical, measured in laboratory environment at 25°C and 110Vdc, at nominal values, after minimum 5 minutes of operation.
- Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
- Data may change without prior notice in order to improve the product.

DIMENSIONS





CONNECTION



- ① DC Input
- 2 Not connected
- 3 PE
- 4 DC Output (load)

Input Connection:

- + = Positive DC
- - = Negative DC
- SB = not connected
- PE = Earth ground

Output Connection:

- + = Positive DC
- - = Negative DC