









■ Main Features

- J Wide input voltage range: 12...85Vdc
- J Extremely low loss up to 99% efficiency
- J Ultra compact
- J Pluggable connectors
- J Up to 70°C operating temperature with no derating

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ΤΕCΗΝΙCΑΙ ΠΑΤΑ

TECHNICAL DATA	
Model type	OR20
OUTPUT DATA	
Rated voltage	1285Vdc
Continuous current	20A
Peak output current	>100A
Conduction resistence INPUT DATA	< 9mΩ
Input DC rated voltage	1285Vdc
Input DC rated current	20A
Standby power	< 0.2W
Input protections	■ Overvoltage ≥ 100Vdc
	Reverse polarity connection
USER INTERFACE	- 100
Status Signals	 IN1 OK - green LED IN2 OK - green LED Redundancy available when IN1 OK & IN2 OK simultaneously OR OK - dry contact (NO, 24Vdc / 1A)
GENERAL DATA	
Dissipated power	< 4W
Operating temperature ¹	- 40°C+ 70°C
Derating	No derating
Storage temperature	- 40°C+ 80°C
Humidity	595% r.H. non condensing
Cooling	Natural convection
Life time expectation	354'655h (40.5 years) at 25°C ambient full load
MTBF	■ MIL-HDBK-217F > 700'000h at 25°C ambient full load
Overvoltage category	 EN50178 I IEC60664-1 2
Pollution degree	- 1EC00004-1 2 0.75kVdc
Insulation enclosure to live parts	
Safety Standards	 UL508 (reference) EN60950 (reference) EN50178 (reference)
EMC Emission	EN55011 (CISPR11) Class A EN55022 (CISPR22) Class A
EMC Immunity	 EN61000-4-2 Level 3 EN61000-4-3 Level 3 EN61000-4-4 Level 3 EN61000-4-5 Level 1 EN61000-4-11 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 Input/Output	2.5mm², screw type pluggable (2412AWG)
Connection dry contact signal	2.5mm², screw type pluggable (2412AWG)
Case material	Aluminum
Weight	0.25kg
Size (W x H x D)	35.0 x 103.0 x 104.0mm
1) Start-up type tested: - 40°C, possible at nominal v	

¹⁾ Start-up type tested: - 40°C, possible at nominal voltage with load deration.

- Technical parameters are typical, measured in laboratory environment at 25°C and 24Vdc, at nominal values, after minimum 5 minutes of operation.

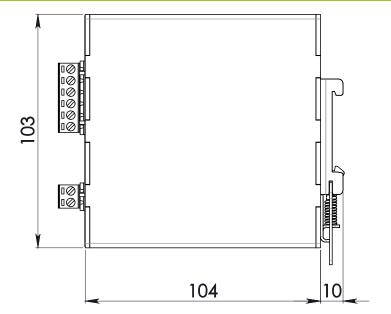
 Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.

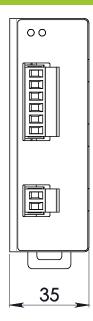
 Data may change without prior notice in order to improve the product.

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DIMENSIONS





CONNECTION



Input Connection:

- IN1 + = Positive DC (Power Supply)
- IN1 = Negative DC (Power Supply)
- IN2 + = Positive DC (Power Supply)
- IN2 = Negative DC (Power Supply)

Output Connection:

- OUT + = Positive DC (Load)
- OUT = Negative DC (Load)

Signalling: **OR OK**: dry contact

- NO COM

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