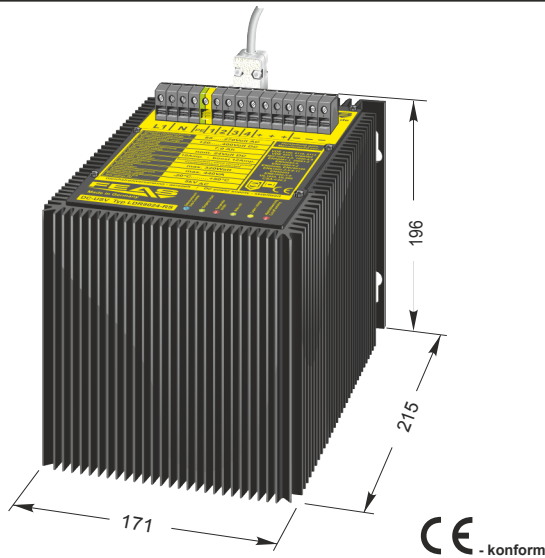
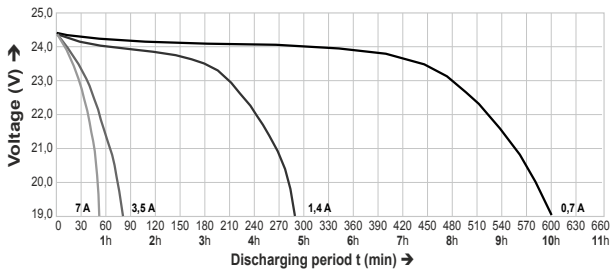


Data sheet

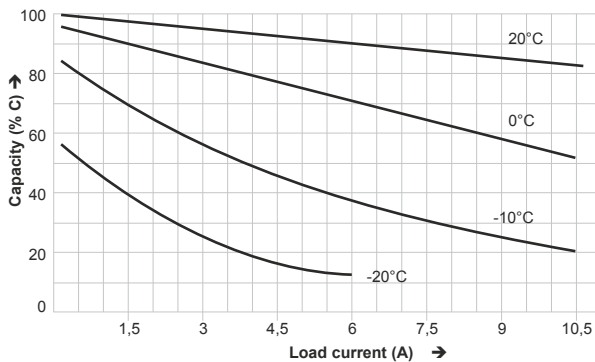
Power Supply with Accupack (DC-UPS): LDR8024-RS



Discharge current diagram at 20°C



Withdrawable capacity in % of the nominal capacity at different temperatures



Products of the series:

Type	LDR8024-RS
Order number	589952
Output voltage	21.0 - 27.6 V _{DC}
Output current	10 A
Capacity (20°)	7 Ah
Nominal Power	280 W
Buffered time	40min, typ. 10 A

Technical data

General data	
Type	LDR8024-RS
FEAS Order number	589952
Product description	Power Supply with accupack and RS interace
Product function	DC power supply
Input data	
AC input voltage	85 - 270V _{AC} (44-66Hz)
DC input voltage	120 - 400V _{DC}
Input current at nominal load	at 115V _{AC} max. 3.0A / at 230V _{AC} max. 1.5A
Input current peak	< 8 A at 230V _{AC}
Protective circuit	Y-transient voltage suppressor varistor, test voltage limited by surge arrester
Output data	
Output voltage U _{Nominal} / rage	24 V _{DC} / 21.0 - 27.6 V _{DC} following the accu-voltage
Power P _{Nominal}	280 Watt
Output current I _{Nominal}	10.0A
Current limiting / fuse mode	max. 12.0 A
Residual ripple (20MHz Bandwidth)	<50mV _{rms}
Control data	
Control deviation (Load)	<200 mV with load variation 10 90%
Control deviation (Supply)	<25 mV with load variation ±10%
Control time	<10ms with load variation 10 90%
Operating data	
Duty circle	100%
Efficiency	approx. 91% (grid mode)
Capacity C	7.0 Ah (20°C)
Buffered Time	typ. 10A - 40min (see graph on the left)
Parallel connection	No
Operating temperature range	-20°C to +50°C
Derating	from 40°C
Storage temperature range	-20°C to +50°C
Cooling	selfcooling
Battery type	Lead-acid accumulator
Installation altitude	unlimited
MTBF	> 380.000h (without accupack)
Safety devices	
Fuse for input	at 115V _{AC} 5.0A slow blow / at 230V _{AC} 2.5A slow blow
Fuse for output	not necessary - short circuit proof
Overload protection	integrated into device
Safety data	
Test voltage transformer	5kV _{AC} according to VDE0570
High voltage resistance	Input/Output 4kV _{AC} according to VDE0806/IEC380
Degree of EMI suppression	according to VDE0871B, EN55022/B
Protection class	Protection class I with PE-Connection (EN62368)
Extra low safety potential	PELV (EN60204), SELV (EN62368)
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient
Protective class enclosure	IP65
Protective class terminals	IP20 (BGV A3)
Vibration proof	>30g at 33Hz in X, Y and Z acc. IEC68 and DIN41640
LED Signals & RS interface	
LED signals	Mains, battery status, buffer operation, overtemperature, data exchange, shutdown warning
RS-232-/ RS-485 interface	1 RS-232/RS-485 on D-Sub 9-pin socket Status messages on the LDR state and activities, Settings, disconnect load, switch off
Applied construction regulations	
according to VDE	VDE0100, VDE0110, VDE0113, VDE0551, VDE0806
IEC	IEC62368-1, IEC61000-6-1-2-3-4, IEC60068-2-3, IEC60068-2-11-52, IEC60529
EN	EN62368-1, EN61140, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN55022, EN55011, EN61000-3-2, EN61000-3-3, EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11, EN60068-1, EN60668-2-1, EN61558-2-17, EN61010-1
CSA/UL	CSA-C 22.2 / UL60950, UL508, UL1950
Mechanical data	
Mounting	on wall with screws
Dimensions (W x H x D)	171mm x 196mm x 215mm
Weight	approx. 12.2kg