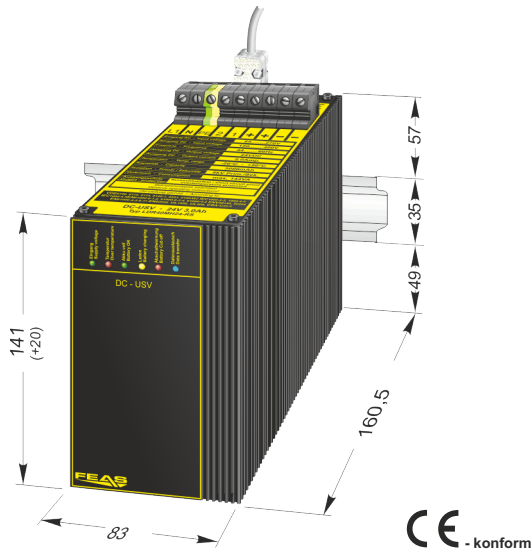
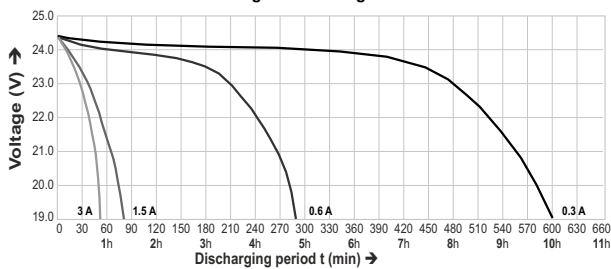


Data sheet

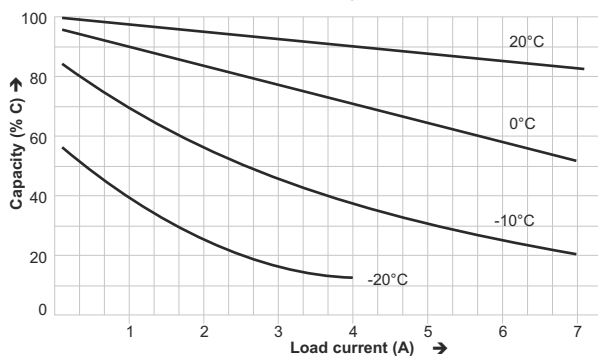
Power Supply with Accupack: LDR40MH24-RS



Discharge current diagram at 20°C



Withdrawable capacity in % of the nominal capacity at different temperatures



Products of the series:

Type	LDR40MH12-HT	LDR40MH24-HT
Order number	589939	589919
Output voltage	9,8V _{DC} ...13,0V _{DC}	19,6V _{DC} ...26,0V _{DC}
Output current	10.0 A	5.0 A
Capacity	6000 mAh	3000 mAh
Nominal Power	120 W	120 W
Buffered time	40min typ. 8 A	30min typ. 5 A

Technical data

General data	
Type	LDR40MH24-RS
FEAS Order number	589919
Product description	Power Supply with accupack (DC-USV)
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. 1,1A / at 230V _{AC} max. 0,55A
Input current peak	< 17 A at 230V _{AC}
Protective circuit	Transient voltage suppressor Varistor
Output data	
Output voltage U _{Nominal}	24 V _{DC}
Buffered voltage	19,6 - 26,0 V _{DC} following the accu-voltage
Output current I _{Nominal}	5,0A
Current limiting/	appr. 1.2 x I _{Nominal}
Power	120 Watt
Residual ripple (20MHz Bandwidth)	<25mV _{pp}
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	3.0 Ah (20°C)
Buffered Time	typ. 5A - 30min
Parallel connection	No
Operating temperature range	-20°C to +50°C
Storage temperature range	-20°C to +60°C
Derating	from 40°C
Cooling	selfcooling
Battery type	NiMH
Installation altitude	unlimited
MTBF	> 380.000h (without accupack)
Safety devices	
Fuse for input	at 115V _{AC} 4,0A slow blow / at 230V _{AC} 2,50A 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 4,4kV _{AC} according to VDE0806/IEC380
Degree of EMI suppression	according to VDE0871B, EN55022/B
Protection class	Protection class I with PE-Connection (EN60950)
Extra low safety potential	PELV (EN60204), SELV (EN60950)
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
Status & Signal	
Status indicator	LED: input, Charging, Buffer mode, Temperature
Signals	LED-Indicators and over RS232
Interfaces	1 RS-232/RS-485 on D-Sub 9-pin socket
Applied construction regulations	
according to VDE	VDE0100, VDE0110, VDE0113, VDE0551, VDE0806
IEC	IEC60950-1, IEC61000-6-1-2-3-4, IEC60068-2-3, IEC60068-2-11-52, IEC60529
EN	EN60950-1, 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, EN6068-2-1, EN61558-2-17, EN61010-1
CSA/UL	CSA-C 22.2 / UL60950, UL508, UL1950
Mechanical data	
Mounting	on DIN-rail or on wall with screws
Dimensions (W x H x D)	83mm x 161mm x 160.5mm
Weight	approx. 3.5kg



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