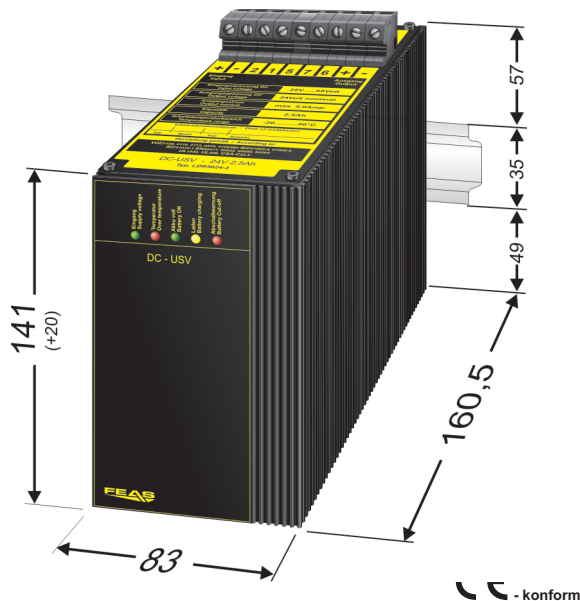


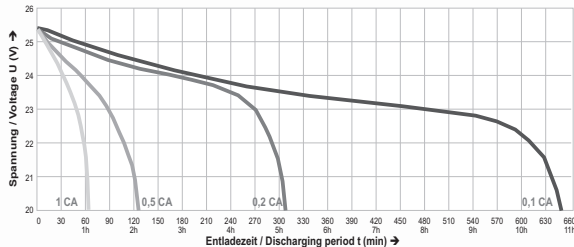
Data sheet

Accupack with charging controller: LDR5024-3

Technical data



Entladekennlinien bei 20°C - Discharge current diagram at 20°C
LDR5024



Products of the series:

Type	LDR5024-3	LDR5024-5
Order number	589928	589926
Output voltage	20.0 - 26.0 V _{DC}	20.0 - 126.0 V _{DC}
Output current	5.0 A	5.0 A
Capacity (20°)	2.5 Ah	5.2 Ah
Charging-current	0.5 A	0.5 A
Buffered time	0.6 h typ. 2.0 A	2.0 h typ. 2.0 A

General data

Type	LDR5024-3
FEAS Order number	589928
Product description	Accupack with electronic charging controller
Product function	DC power supply

Input data

DC-input voltage	28.0 - 68.0 V _{DC}
Input current at nominal load	at 28.0 V _{DC} max. 5.1A
Charging current	ca. 0.5 A
Charging time	max. 5 h
Protective circuit	-

Output data

Output voltage U _{nominal}	20.0 - 26.0 V _{DC} following the accu-voltage
Buffered voltage U _{buffer}	20.0 - 26.0 V _{DC} following the accu-voltage
Output current I _{nominal}	5.0 A
Current limiting	-
Residual ripple (20MHz)	<25mV _{pp}

Control data

Control deviation load	-
Control deviation supply	-
Control time	-

Operating data

Duty circle (ED)	100% (continuous operation)
Capacity C	2.5 Ah (20°C)
Buffering-time	typ. 2.0A - 0.6h (see graph on the left)
Efficiency	ca. 88% (grid operation)
Parallel connection	No
Operating temperature range	-20°C to +50°C
Derating	from 40°C
Storage temperature range	-30°C to +65°C
Cooling	selfcooling recommended respective distance 15mm each
Installation altitude	unlimited
MTBF	> 380.000h

Safety devices

Fuse for input	recommended, 10.0 A slow blow at 28 V U _N
Fuse for output	not necessary - short circuit proof
Overload protection	integrated into device

Safety data

Test voltage transformer	-
High voltage resistance	-
Degree of EMI suppression	according VDE0871B, EN55022/B
Protection class	Class II
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	up to 30g at 33Hz in X, Y and Z acc. IEC68 and DIN41640 (without accu)

Status & Signal

Status indicator	LED - DC-Input, Temp., Charging, Buffer-mode
Signals	Relais - Line-In, Accu-protection
Interfaces	-

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, EN61000-3-3, 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 Rails according to DIN 46277
Dimensions (W x H x D)	83mm x 161mm x 160,5mm
Weight	approx. 3.5kg



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