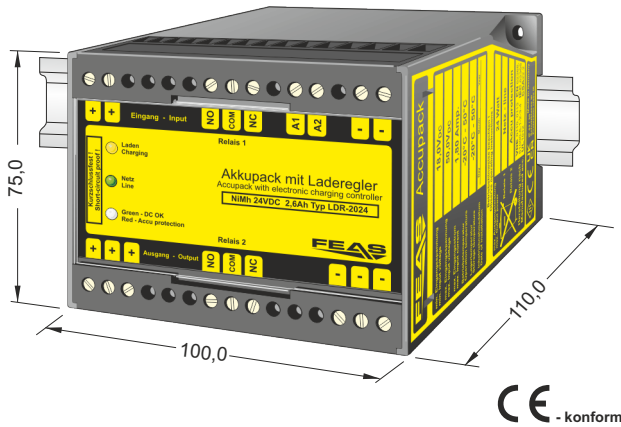


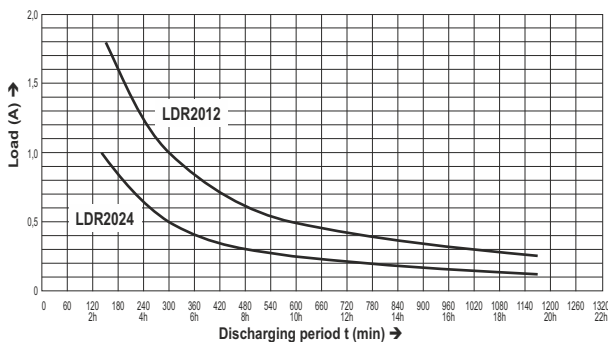
Data sheet

Accupack with charging controller: LDR2024

Technical data



Discharge current diagramm at 20°C



Products of the series:

Type	LDR2012	LDR2024
Order number	589921	589920
Output voltage	10.0 - 14.0 V _{DC}	20.0 - 27.0 V _{DC}
Output current	1.8 A	1.0 A
Capacity (20°)	5.2 Ah	2.6 Ah
Charging-current	0.6 A	0.3 A
Buffered time	2,5 h typ. 1.8 A	2,5 h typ. 1.0 A

General data

Type	LDR2024
FEAS Order number	589920
Product description	Accupack with electronic charging controller
Product function	DC power supply

Input data

Min. input voltage $U_{in Min}$	18.0 V _{DC}
Max. input voltage $U_{in Max}$	50.0 V _{DC}
Charging current	ca. 0.3 A
Charging time	max. 6 h
Protective circuit	-

Output data

Output voltage $U_{nominal}$	20.0 - 27.0 V _{DC} following the accu-voltage
Buffered voltage U_{buffer}	20.0 - 27.0 V _{DC} following the accu-voltage
Output current $I_{nominal}$	1.0 A
Current limiting	-
Residual ripple (20MHz)	<50mV _{pp}

Control data

Control deviation load	-
Control deviation supply	-
Control time	-

Operating data

Duty circle (ED)	100% (continuous operation)
Capacity C	2.6 Ah (20°C)
Buffering-time	typ. 1.0A - 2.5h (see graph on the left)
Efficiency	ca. 82% (grid operation)
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 recommended respective distance 15mm each
Installation altitude	unlimited
MTBF	> 380.000h

Safety devices

Fuse for input	recommended, 2.5 A slow blow at 24 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 suppresion	according VDE0871B, EN55022/B
Protection class	Class III
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	IP44
Protective class terminals	IP20 (BGV A3)
Vibration proof	up to 5g at 33Hz in X, Y and Z acc. IEC68 and DIN41640

Status & Signal

Status indicator	LED - Operation, Charging, Buffer-mode
Signals	Relais - Line-In, Accu-protection
Interfaces	sleeping-mode

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, EN6068-2-1, EN61558-2-17, EN61010-1
CSA/UL	CSA-C 22.2, UL508, UI1950

Mechanical data

Mounting	on Rails according to DIN 46277 or wall
Dimensions (W x H x D)	100mm x 75mm x 110mm
Weight	approx. 1.45kg



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