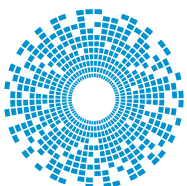




Battery Charging Solutions



bel POWER SOLUTIONS & PROTECTION

a bel group

belpowersolutions.com

INDUSTRIAL

DIN Rail Battery Chargers

DIN Rail Battery Chargers are suitable for charging 12 V or 24 V systems supporting various battery chemistries. They are intended for general use such as industrial control, communication, and instrumentation equipment.

LDX-C120 Series - Battery Charger / DC UPS Module

- Allows to feed the load and to charge the battery at once
- Built-in battery protection fuse
- “Low battery” cut-off system

LDX-L30 - Sealed Lead-Acid Battery Pack

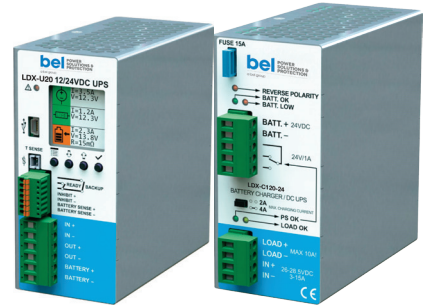
- User Settable Output Voltage 12 / 24 VDC (2.4 / 1.2 Ah)
- Integrated Self Resettable Overcurrent Protection

LDX-U20 Series - Battery Charger / DC UPS Unit

- LCD display and keys
- USB communication port for remote monitoring and configuration
- Allows user settable charge algorithm

LDB120 Series - Integrated PS / Battery Charger / DC UPS Module

- Input voltage range 90 - 264 VAC
- Efficiency up to 86%
- Protections against battery reverse polarity, deep discharge, shortcircuit / overload



HYBRID & ELECTRIC VEHICLE

INVCH Series - Bi-Directional Inverter Charger

The 350INVCH150 Series is a 15 kW inverter charger that converts AC to DC voltages in charge mode and converts DC voltages to pure sine wave AC to power accessories.

Features & Benefits

- Input Voltage Range 90 – 264 VAC / 47 – 63 Hz
- 90% Typical Efficiency
- Charge Mode Output 250-435 VDC
- Export Power Mode Output 120/240 VAC (50/60 Hz)
- Possible overload up to 200% of nominal output power during 10 sec in Export mode, suitable to start-up electric motor loads
- Liquid Cooled only
- CAN Bus Serial Interface
- Wide Ambient Operational Temperature Range
- IP65 and IP67
- Available Grid-Tie model certified according UL1741



RAILWAY

LBC Series - Battery Charger

The LBC Series is a ruggedized battery charger consisting of two or three parallel independent AC-DC converter modules employing PFC stage and insulated DC-DC stage to convert the three-phase input voltage 400 / 480 VAC (line to line) to a bus voltage suitable for 110 V battery charging. The system includes a DSP for control and monitoring.

Features & Benefits

- Custom solution for multiple railway and industrial applications
- Input voltage: 3x 400 / 480 VAC (350 - 528 VAC)
- Output power up to 12 kW
- 110 VDC output is decoupled with a diode for load separating
- Output voltage for 110 V NiCd battery (adjustable 85 – 137.5 VDC)
- Operating temperature -25 to 55°C without derating
- CAN bus / Ethernet Interface
- EN 50155, EN 50121-3-2 and EN 45545 compliant



Bel Power Solutions offers a wide range of battery charger systems for railway applications consisting of adapted power supplies and appropriate temperature sensors. The batteries are charged according to the battery temperature and the properties of battery cells. When the battery is fully charged, it is maintained at the float charge voltage, which represents the optimum point for maximum available energy and optimum life expectancy of the battery.

Bel Power Solutions offers various types of standalone battery charging solutions up to 500 W:

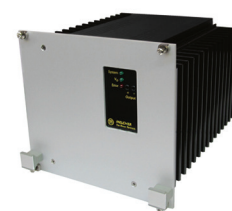
Rugged DIN Rail Battery Chargers

V _{BAT}	MODEL	I _{ONOM}	EFFICIENCY	CASE TYPE SERIES	INPUT VOLTAGE
12	LOK4140-2RLD	3.6 A	82 %	O	85 - 264 VAC (47 - 63 Hz), 90 - 35 VDC (W, X Case), 90 - 250 VDC (O Case)
	LWR1140-6EM1	7.5 A	83 %	W	
	LWN1140-6EM1	14 A	85 %	W	
24	LOK4240-2RLD	1.8 A	82 %	O	
	LWR1240-6EM1	4.2 A	86 %	W	
	LWN1240-6EM1	8.4 A	85 %	W	
	LXR1240-6M1	12.6 A	87 %	X	
36	LXN1240-6M1	16.8 A	87 %	X	
	LWR1840-6EM1	2.8 A	86 %	W	
	LWN1840-6EM1	5.6 A	86 %	W	
48	LXR1840-6M1	8.4 A	87 %	X	
	LXN1840-6M1	11.2 A	87 %	X	
	LWR1740-6EM1	2.1 A	86 %	W	
	LXN1740-6M1	8.4 A	87 %	X	

Rugged Cassettes Battery Chargers

V _{BAT}	MODEL	I _{ONOM}	EFFICIENCY	CASE TYPE SERIES	INPUT VOLTAGE
12	E/LM1781-9R	3.6 A	79 %	M	See datasheet for detailed information (L option 85 - 264 VAC, 47-63 Hz, 88 - 373 VDC)
	D/LS1740-9ER	7.5 A	-	S	
	D/LK1740-9ER	10 A	83 %	K	
	LK4740-7R	10 A	84 %	K	
24	E/LM1782-9R	1.8 A	81 %	M	
	D/LS2740-9ER	3.6 A	-	S	
	D/LK2740-9ER	5 A	83 %	K	
	LK5740-7R	5.4 A	83 %	K	
	LKP5740-7R	9 A	86 %	K	
36	U/LT1240-7Z	14.4 A	91 %	T	
	E/LM1783-9R	1.2 A	82 %	M	
	LT1840-7Z	11 A	91 %	T	
48	E/LM1784-9R	0.9 A	81 %	M	
	D/LS2740-9ER	1.8 A	-	S	
	D/LK2740-9ER	2.5 A	83 %	K	
	LK5740-7R	2.7 A	83 %	K	
	LKP5740-7R	4.5 A	86 %	K	
60	U/LT1740-7Z	10 A	92 %	T	
	E/LM1785-9R	0.72 A	81 %	M	

NOTE: All Melcher cassettes with R option can be used as battery chargers (HR/ER, HP, RCM ...)



CUSTOM SOLUTIONS

Bel Power Solutions designs and manufactures a wide range of standard battery charging products, but is ready to meet customer's unique requirements and demands providing modified standard, value-add, or even full custom solutions, including on-board battery chargers for HEV applications, high power battery chargers for Marine applications, variety of modified to custom made battery chargers for Railway and Industrial applications.





Bel Power Solutions

Bel Power Solutions provides intelligent, efficient and reliable AC-DC and DC-DC power conversion devices. Applications range from board-mount power to system-level architectures for servers, storage, networking, industrial and transportation. We continue to focus on the growth of our business with strategic customers and distributors.



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