

LION Charger

24V 130A / CG5602

Century LION is the next generation of chargers. Incorporating a specialised charging algorithm, high efficiency power conversion and integrated queuing facilities, the MP LION is industry leading for all different chemistry of Lithium batteries.

The microprocessor using a Century specified algorithm can optimise charging on a range of battery types. This optimisation has the benefit of delivering a fully charged battery quicker while minimising the effects that standard chargers can have on batteries.

The use of high frequency power conversion has the effect of reducing the amount of energy consumed for charging, and providing a greater level of control of the power output. This technology also has the advantage of being lighter weight to conventional thyristor controlled chargers.

This allows operators to have the option of wall mounting these chargers, reducing the possible risk of impact from other equipment, and improving the use of space.

The and Lion chargers can communicate through CAN, ethernet, radio and have BMS and DPL control as standard. It also comes with single I/O cards used for various functions. This makes the battery chargers versatile and gives them possibility to communicate with most systems. All chargers are compatible with the GET system, helping you to optimize your operations through online monitoring and intelligent data analysis.

Features and Benefits

- Opportunity charging, from a few seconds
- Fast charging
- Automatic charging start
- Remote control
- Other I/O involving actions
- Century approved charging algorithms: Century specified charging profiles to improve charging efficiency and reduce physical wear on the battery.



- Programmed charge time: Provides the option to operators to charge batteries when electricity tariff is lower to further help reduce consumption of electricity at peak rates.
- Alarm indicators: Highlights to the operator and logs issues with the charger and battery.
- High frequency power conversion: With >91% efficiency with power conversion from input power to output power, can have the advantage of reducing the amount of power consumed to recharge batteries.

Products shown above:
All LION 50 and 80

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ELECTRICAL INPUT SPECIFICATIONS

VAC Input	3P 400VAC -15% / +10%
Input Current (Max I)	6.2A (@ 400VAC)
Fuse	16A
Input Frequency	50 - 60Hz
Power Outlet Required	56P420(56P410 is optional)
Power Factor	>0.98 at rated power
Efficiency	>91% at rated power
Standby consumption	<5W

ELECTRICAL OUTPUT SPECIFICATIONS

Technology	High Frequency Conversion (Soft Start)
Max VDC (Programmable)	29.4Vdc(100%rate)
VDC Output Range	0-33.8VDC (11-29.4Vdc, 100% rate)
Max Current (A)	130 A
Output Power (kW)	3.82kW (29.4VDC @ 400VAC)
Output Ripple	<5% RMS of Nominal DC Voltage & <10% RMS ripple current at 100% load
Output Accuracy Setting	VDC Ouput +/- 1% / Current Ouput +/- 2%

ENVIRONMENTAL

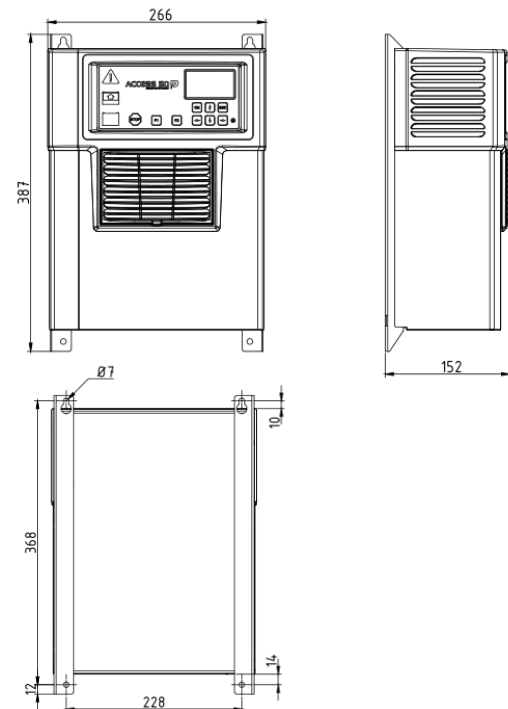
Environmental Protection	Conformal Coating
Operational Temperature (Ambient)	0°C to +40°C (Full Power)
Temperature Protection	Software and hardware
Storage Temperature	-20°C to +70°C
Humidity	RH <95% non-condensing
Cooling	Fan Cooled - Temperature Controlled
IP Rating	IP20

STANDARDS

EMC Directive	EMC 2004/108/EG
Emissions	EN 61000-6-3
Immunity	EN 61000-6-2
Safety Directive	LVD 2006/95/EC
Safety	EN60335-1 & EN60335-2-29

MECHANICAL

Weight (kgs)	8 (without external cabling)
Height (mm)	387
Width (mm)	266
Depth mm	152



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