

# MP Access Charger

**36V 150A / CG5101**

Century MP Access is the next generation of chargers. Incorporating a specialised charging algorithm, high efficiency power conversion and integrated queuing facilities, the MP Access is industry leading.

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 integrated queuing facility provides a simple and effective method of monitoring and then identifying which of the batteries being charged has reached the highest state-of-charge. This has the facility to increase the life of batteries and improve the efficiency of operations.

## Features and Benefits

- Queuing battery system: Facility to increase the life of the battery and run time of electrical materials handling equipment.
- Century approved charging algorithms: Century specified charging profiles to improve charging efficiency and reduce physical wear on the battery, such as increase water consumption.
- 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.



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## ELECTRICAL INPUT SPECIFICATIONS

|                       |                       |
|-----------------------|-----------------------|
| VAC Input             | 3P 400VAC -15% / +10% |
| Input Current (Max I) | 10.9A (@ 400VAC)      |
| Fuse                  | 16A                   |
| Input Frequency       | 50 - 60Hz             |
| Power Outlet Required | 56P420                |
| Power Factor          | >0.98 at rated power  |
| Efficiency            | >91% at rated power   |
| Standby consumption   | <5W                   |

## ELECTRICAL OUTPUT SPECIFICATIONS

|                            |   |
|----------------------------|---|
| Technology                 | High Frequency Conversion (Soft Start)                                  |
| Nominal VDC (Programmable) | 24VDC and 36VDC   |
| VDC Output Range           | 1.4VDC to 2.9VDC Per Cell   |
| Max Current (A)            | 150 A   |
| Output Power (kW)          | 6.5kW (2.4VDC @ 230VAC)   |
| Output Ripple              | <5% RMS of Nominal DC Voltage &<br><10% RMS ripple current at 100% load |
| Output Accuracy Setting    | VDC Ouput +/- 1% / Current Ouput +/- 2%                                 |

## ENVIRONMENTAL

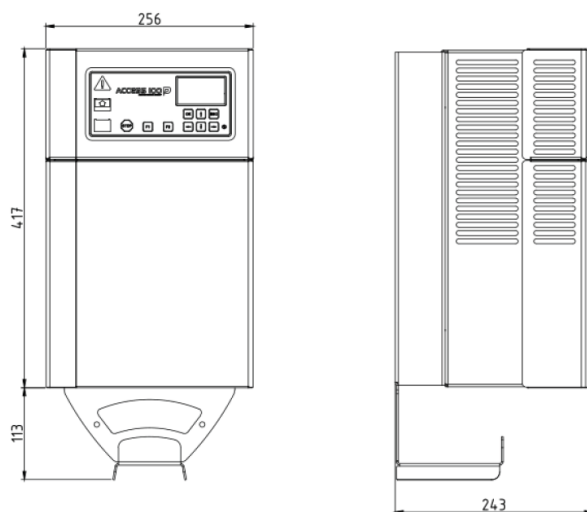
|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Environmental Protection          | Conformal Coating                   |
| Operational Temperature (Ambient) | 0°C to +40°C (Full Power)           |
| Temperature Protection            | Software and hardwareV              |
| 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 (kg)     | 22  |
| Height (H) (mm) | 417 |
| Width (B) (mm)  | 256 |
| Depth (D) mm    | 243 |



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