

SMC-HF

36V 80A / CG5307

SMC chargers are a leading range of chargers by Century which incorporate a specified charging algorithm and proven high efficiency power conversion. This range of chargers has been selected for Australian conditions and is able to recharge a variety of battery voltages including 24VDC, 36VDC, 48VDC and 80VDC.

The integrated industrial microprocessor using Century's specified algorithms can optimise charging on a range of battery types, including VRLA (Sealed) batteries. 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.

Features and Benefits

- Compliant to relevant Australian Standards: Century ensures full compliance with relevant standards applicable to chargers.
- Industry leading charging algorithms: Century specified charging profiles to improve charging efficiency and reduce physical wear on the battery, such as increase water consumption.
- Alarm indicators: Highlights to the operator and logs issues with the charger and battery.
- High frequency power conversion: With >90% efficiency with power conversion from input power to output power, can have the advantage of reducing the amount of power consumed to recharge batteries.



Left & middle: 24V 30A, 45A, 60A
Right: 24V120A, all 36V, 48V & 80V

SMC-HF

36V 80A / CG5307

ELECTRICAL INPUT SPECIFICATIONS

| | |
|-----------------------|----------------------|
| VAC Input | 1P 230VAC -15%/ +10% |
| Input Current (Max I) | 15.8A (@ 230VAC) |
| Fuse | 16A |
| Input Frequency | 50 - 60Hz |
| Power Outlet Required | Clipsal 56C310 |
| Power Factor | >0.9 at rated power |
| Efficiency | >89% at 100% Load |

ELECTRICAL OUTPUT SPECIFICATIONS

| | |
|-------------------------|---|
| Technology | High Frequency Conversion (Soft Start) |
| Nominal VDC | 36VDC |
| VDC Output Range | 1.4VDC to 2.9VDC Per Cell |
| Output Power (kW) | 3.2kW (@ 2.2V/Cell, Input 230VAC) |
| Output Ripple (Max) | 30mV RMS of Nominal DC Voltage |
| Output Accuracy Setting | VDC Ouput +/- 1% / Current Ouput +/- 2% |
| MTBF | ~60,000 hours @ 30°C |

ENVIRONMENTAL

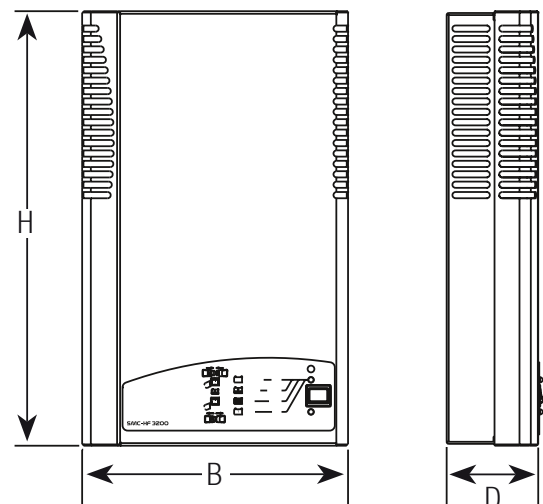
| | |
|-----------------------------------|-------------------------------------|
| Environmental Protection | Conformal Coating |
| Operational Temperature (Ambient) | 0°C to +40°C (Full Power) |
| Storage Temperature | -20°C to +50°C |
| Humidity | RH <90% non-condensing |
| Cooling | Fan Cooled - Temperature Controlled |
| IP Rating | IP20 |

STANDARDS

| | |
|-----------|-----------------------------|
| Emissions | EN 50081-1 Light Industry |
| Immunity | EN61000-6-2 From 2002-04-01 |
| Safety | EN60335-1 & EN60335-2-29 |

MECHANICAL

| | |
|-----------------|-------------------------------|
| Weight (kgs) | 10 (without external cabling) |
| Height (H) (mm) | 425 |
| Width (B) (mm) | 255 |
| Depth (D) mm | 90 |



An affiliated business of the GS Yuasa Corporation, CenturyYuasa has over 80-years of supplying a range of stored energy solutions to the Australian market. An established network of sales and distribution offices throughout Australia and New Zealand has seen the business gain the trust and respect from its customers by focusing on quality products and exceptional customer service. The portfolio within CenturyYuasa includes a wide range of stored energy products and services, as well as identifiable brands and unique technologies for automotive, materials handling and standby power applications. Directly maintaining and operating two manufacturing centers in Australia and employing some 500 people, CenturyYuasa continues to be a leading Australian manufacturer of stored energy products.

All reasonable care has been taken to ensure that the data presented in this document is accurate for the purpose for which it is presented. CenturyYuasa reserves the right to make changes to its products and information contained in this document without notice, and shall not be held liable for any loss or damage claimed to have arisen as a result of the use of this brochure.