

Robust

High Efficiency Traction Chargers

Century ROBUST 48V 20A CG5503

Robust is a newly developed range of very compact, high frequency chargers for harsh environments, such as cold storage, where there is a high level of moisture and dust.

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 can reduce the amount of input energy consumed for charging, with a high level of control of the power applied to the battery.

Using advanced technology means that the chargers are lighter weight to conventional thyristor controlled chargers; giving operators the choice of wall mounting these chargers to prevent the risk of damage from impact from other equipment as well as increasing floor space utilisation.



Features and Benefits

- Compliant to relevant Australian Standards: Century ensures full compliance with all relevant standards applicable to traction chargers.
- Protection class IP54 protected for high dust and moisture environments. It can reduce the amount of internal short circuits as a result of condensation or high humidity environments.
- Up to 95% less energy losses and more energy efficient.
- Extremely light and compact with a modern design.

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ELECTRICAL INPUT SPECIFICATIONS

VAC Input	1P 230Vac ±10%
Input Current (Max I)	5.6A (@230VAC)
Input Frequency	47-63Hz
Power Socket Required	56C310
Power Factor	>0.98 at rated power
Efficiency	MAX 93% at full load

ELECTRICAL OUTPUT SPECIFICATIONS

Technology	High Frequency Conversion(Soft Start)
Nominal VDC (Programmable)	48VDC
VDC Output Range	1.4 to 2.9VDC per cell
Output Power (kW)	1.2kW(2.4VPC @ 230VAC)
Max Output Current (A)	20A
Output Ripple	<1%rms from maximum output voltage (1MHz bandwidth)
Output Accuracy Setting	VDC output ±0.5% / Current output ±2%

ENVIRONMENTAL SPECIFICATIONS

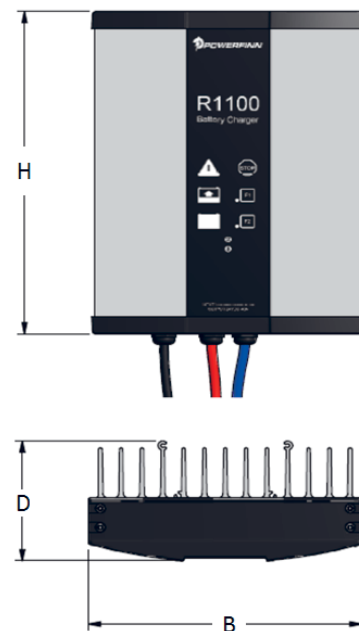
Environmental Protection	Conformal coating
Operational Temperature (Ambient)	0°C to + 40°C(Full Power), ~55°C (Absolute Max)
Storage Temperature	-35°C to + 55°C
Humidity	RH <95% Non-condensing
Cooling	Passive cooled
IP Rating	IP54

STANDARDS

Emissions	EN61000-6-3
Immunity	EN61000-6-2
Safety	EN60335-1 & EN60335-2-29

MECHANICAL

Weight (kgs)	5.8
Height (H) (mm)	290
Width (B) (mm)	230
Depth (D) (mm)	108



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