

MRCC Charge Controller

The charge controller is the beating heart of any solar energy system. The MRCC controller is a battery charge regulator for small to medium sized photovoltaic solar systems, which are used for industrial applications. The MRCC features all functions and properties necessary in the industrial field to safeguard an optimum battery charge and discharge cycle.



Key Features :

- Overcharge and deep discharge protection
- Functional test facility
- Protection against reverse current, reverse polarity connection of solar modules and battery and overload on output
- External voltage/temperature sensor ensures long battery lifetime
- Suitable for high starting currents
- Extremely low energy consumption

Main Areas of Application :

- Marine and aircraft beacons
- Wellhead control
- Motors or pumps
- Monitoring and telemetry
- Telecommunication

Technical Specifications

Typical specifications		
Nominal voltage	[Vdc]	24
Solar array inputs	[No.]	1
Max. continuous array input current	[A]	31.5
Max. array input voltage	[V]	80
Max. battery input voltage	[V]	40
Max. load output current	[A]	24 (cont.) / 40 (1 minute)
Peak load output current	[A]	250 (1 second)
Max. terminal connector size	[mm ²]	16
Volt/Temp Sensor		✓
Test Switch/Button		✓
Operating efficiency @ full input and full load	[%]	99.75
Temperature Compensation	[mV/ °C]	-60
Battery type		VRLA
Typical settings		
Pre-warning low voltage(alarm)	[Vdc]	23.6
Load disconnect low voltage (alarm)	[Vdc]	23
Load reconnect level	[Vdc]	24.4
Boost level @ 25 °C	[Vdc]	29
Float level @ 25 °C	[Vdc]	28.4
Float reconnect level	[Vdc]	27.4
Boost reconnect level	[Vdc]	25.6
General specifications		
Operating temperature		-10 °C to +85 °C
Storage temperature		-30 °C to +85 °C
Mounting		Indoor
Dimensions (H x W X D)		17.3 x 10.2 x 6 cm
Unit weight		0.40 kg