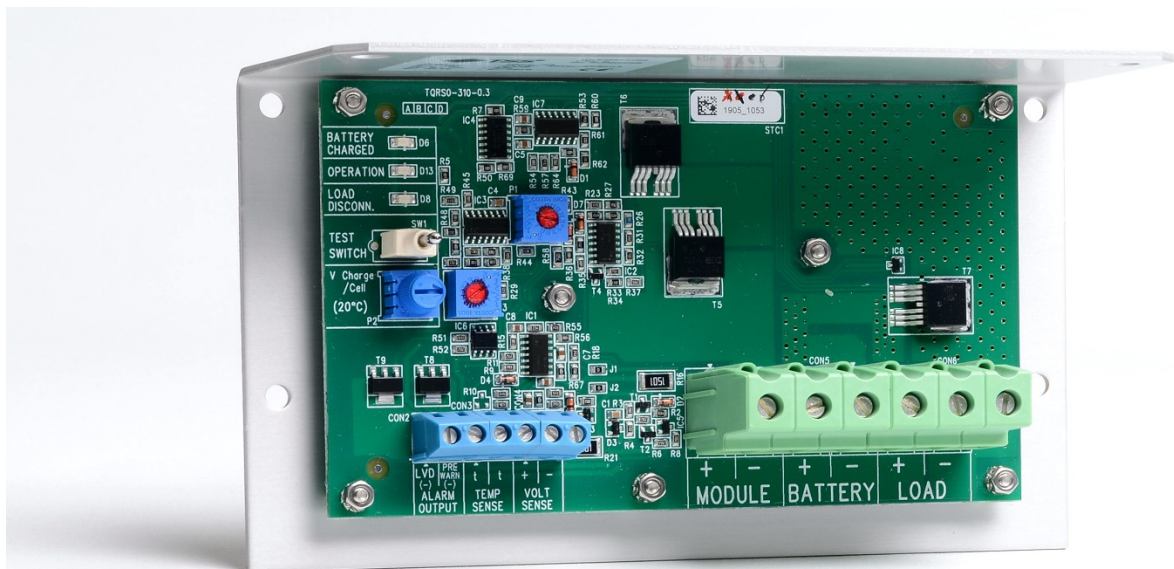


MRCC PWM Controller

The charge controller is the beating heart of any solar energy system. The MRCC charge controller is a battery charge regulator for small to medium sized photovoltaic 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 PV 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

Specifications

Typical specifications	
Nominal system voltage	24 Vdc
Solar array inputs	1
Max. continuous array input current	31.5 Adc
Max. array input voltage	75 Vdc
Max. battery input voltage	40 Vdc
Load output	1
Max. load output current	24 Adc (cont.) / 40 Adc (1 minute)
Peak load output current	250 Adc (1 second)
Operating efficiency @ full input and full load	99.75 %
Terminal connector size	≤ 16 mm ²
Voltage/temperature sensor	External
Test switch	On PCB

Typical settings	
Pre-warning low voltage (alarm)	23.6 Vdc
Load disconnect low voltage (alarm)	23.0 Vdc
Load reconnect level	24.4 Vdc
Boost @ 20°C level	29.0* Vdc
Float @ 20°C level	28.4* Vdc
Float reconnect level	27.4 Vdc
Boost reconnect level	25.6 Vdc
Pre-warning low voltage(alarm)	23.6 Vdc
Temperature compensation	-60mV/ °C

* Boost and float voltage for Lead Acid are temperature dependent

General specifications	
Operating temperature	-10°C to +85°C
Storage temperature	-30°C to +85°C
Humidity	100% non-condensing
Mounting	Indoor
Dimensions (H x W X D)	17.3 x 10.2 x 6.0 cm
Unit weight	0.40 kg
Digital output	2x open drain
Approvals	CE
Standards	IEC 61000-6-2, IEC 61000-6-4, IEC 60950-1