

## BATTERY MANAGEMENT SYSTEM (BMS)



# Battery Management System

Manages battery parameters for optimal charging and discharging

The built-in BMS battery management system is crucial for the long-term life of the battery in an off-grid system. **The BMS monitors and manages battery parameters, ensuring optimal charging, discharging and protecting against overcharging or over-discharge.** This allows users to enjoy a reliable source of energy for many years.

## MULTIFUNCTIONAL TOUCH-SCREEN LCD DISPLAY

Continuous monitoring of battery performance

The product is equipped with a **multifunctional, easy-to-use LCD display with control panel**. Facilitates monitoring of the entire photovoltaic installation. **Allows you to configure the input voltage range** for home appliances and personal computers or change the priority settings of the AC/Solar charger. In addition, **the display records data and informs about failures, reacting accordingly if any of the parameters exceed the norm. If a fault occurs, the inverter shuts down.**

## CONFIDENCE CONFIRMED BY A WARRANTY

Product with 24 months guarantee

Our company is committed to providing technical support and customer service, making our guarantee a comprehensive commitment to customer satisfaction for two years from the date of purchase. The accompanying protocol is an integral part of the guarantee and is necessary to make a claim for faulty goods within **24 months of purchase.**

## TECHNICAL DATA

Producer	Qoltec
Type	Off-Grid
Phase	Single phase
Rated Power	6200VA/6200W

Surge power	12400VA
Input parameters	
Nominal Input voltage	220/230VAC
Maximum AC input voltage	300VAC
Input Voltage Range	170-280VAC; 90-280VAC
Working frequency	50/60 HZ (auto detection)
Output parameters	
Efficiency	95%
Transfer time	10 ms (PC) 20 ms (home appliances)
Waveform	Pure sine wave
BATTERY PARAMETERS	
Type of charging	MPPT
Battery voltage	48V
Charge Current (AC)	80A
Variable charging voltage	54VDC
Battery overcharge protection	63VDC
Maximum battery charging current from PV	120A
Work without battery	Yes
PV PARAMETERS	
Maximum PV array open circuit power	6500W
Maximum solar charge current	120A
MPPT STARTING VOLTAGE	60VDC
MPPT operating voltage range	60 ~ 500VDC
Maximum PV array open circuit voltage	500VDC
OTHER PARAMETERS	
Screen	LCD
Interface	RS-232, RS485
Cooling system	2 x fan
Protection	Anti-short-circuit Against overheating Against overload Against overload
Colour	White, green
Additional information	Support BMS Support LiFePO4 AGM, GEL, Deep cycle batteries
Notices	We require the device to be installed by a qualified installer with the appropriate authorization. In case of installation by unauthorized persons, the warranty will automatically expire. The included protocol is an integral part of the warranty and is necessary to file a claim for defective goods within 24 months from the date of purchase.
Working temperature	-10°C ~ +50°C
Storage temperature	-15°C do +60°C
Size	450 x 300 x 130mm
Package contents	1 x Solar inverter 1 x User manual 1 x Device installation protocol
Package depth / length [mm]	540
Package height [mm]	395
Package width [mm]	210
Net weight [kg]	8.900

Gross weight [kg]	9.850
Certificate	CE
Warranty	24 month
EAN code	5901878538662