

MERLIN SOLARPLEX CHARGE CONTROLLERS

Put yourself in control with a Merlin SolarPlex charge controller tailored to meet your specific solar needs. Choose the cutting-edge multi-power point tracking (MPPT) controller to ensure optimum performance of your solar panels.

Merlin's SolarPlex MPPT charge controller is designed to optimise solar panel performance, maximising power output for 12V or 24V batteries. Through MPPT technology, it enhances solar yield by up to 20% compared to standard PWM controllers, actively adjusting the solar panel voltage to match the battery's requirements, regardless of its discharge state. This advanced algorithm ensures maximum power delivery with minimal electrical losses under various weather conditions.

Aside from its high efficiency, the MPPT Controller offers charging and voltage protection for both single and dual battery systems. Whether charging two leisure batteries or a combination of leisure and vehicle batteries, the controller prioritises charging the battery connected to its No 1 terminals until it reaches 70% capacity. Subsequently, it provides a simultaneous and equal charge to both batteries.

For real-time monitoring, a free-to-download Bluetooth App (search pvmobilesuit) connects to the MPPT, enabling Apple or Android users to track solar panel performance and battery data. The MPPT safeguards batteries against overcharging for solar panels or arrays up to 225W, making it an excellent choice for new installations or as an upgrade to existing solar systems.

- **Protection**
against reverse current, overload, open circuit, lightning surge, and deep discharge.
- **Unique dual battery charging function.**
- **Efficient MPPT charging**
increases battery lifetime and improves solar system performance up to 20%.
- **12/24V automatic recognition.**
- **Bluetooth**
with Apple and Android apps available.
- **Optional display unit available.**



PART #
RATING

07-1604
15A MPPT

NOMINAL SYSTEM VOLTAGE	12/24VDC (AUTOMATIC SYSTEM VOLTAGE RECOGNITION)
BATTERY VOLTAGE RANGE (V)	11-36
RATED BATTERY CURRENT (A)	15
CHARGE CIRCUIT VOLTAGE DROP (V)	N/A
SELF-CONSUMPTION (mA)	≤24
TEMPERATURE COMPENSATION COEFFICIENT	N/A
OVER VOLTAGE DISCONNECT VOLTAGE (V)	16V/32
CHARGING LIMIT VOLTAGE (V)	15.5V/31
EQUALIZE CHARGING VOLTAGE (V)	14.8V/29.6
FLOAT CHARGING VOLTAGE (V)	13.8/27.2
OPERATING TEMPERATURE	-35°C TO +55°C
OVERALL DIMENSIONS (MM)	150 X 85 X 40
MOUNTING HOLE SIZE (IN CASE)(MM)	3.8
TERMINAL SIZE	6MM ²
NET WEIGHT (G)	220