MERLIN POWERCELL

The Merlin PowerCell is a lOOAh battery, powered by the latest and safest lithium iron phosphate technology (LiFeP04), designed for the toughest of applications, making it a perfect replacement for a 12V lead-acid battery.

The Merlin PowerCell weighs only 15kg and provides a far greater life cycle than traditional battery technologies. With reliable high-power output and deep repeated discharge capability, Merlin Powercell batteries are an excellent solution for:

- back-up power to commercial and industrial applications, data centers, battery farms, and IT systems;
- mission-critical support, such as renewable energy storage and off-grid lighting;
- the leisure market, including supporting caravans, camper vans, motor homes and canal boat.

With features, such as intelligent management, the Merlin PowerCell provides further security and boosted power that allows for multiple appliances to be used simultaneously. To prove how confident we are in our technology, we give our customers a 6 year warranty under which we will repair or replace the unit.

- **Longer life**
  with up to 5000 cycles at 80% DoD for up to 20 years.

- **Faster charging**
  with full charge occurring in as little as 2 hours.

- **Lightweight**
  weighing at 15kg, more than half the weight of a lOOAh lead-acid battery.

- **Intelligent management**
  with built-in automatic (BMS) protection from overcharge, over discharge, over current, and overheating.

- **Environmentally friendly**
  with a promise from Merlin to reuse or recycle every battery that is returned to us.

- **Certified to CE and UN38.3**
  reflecting that safety is paramount.

PART#   88-1001

ELECTRICAL CHARACTERISTICS
NOMINAL VOLTAGE (V)   12.8
NOMINAL CAPACITY (AH)   110
ENERGY (WH)   1408

STANDARD DISCHARGING
MAX. DISCHARGING CURRENT (A)   100
MAX. DISCHARGING POWER (W)   1280
MAX. DISCHARGING PULSE (A)   200

STANDARD CHARGING
CHARGING VOLTAGE (V)   14.4 – 14.6
CHARGING CURRENT (A)   21.6
MAX. CHARGING (A)   54

ENCLOSURE
CASING   ABS UL94-VO FLAME RESISTANT
WEIGHT (KG)   13.7
DIMENSIONS (MM)   355 X 176 X 189
TERMINAL   AUTOMOTIVE ROUND POST

ACCREDITATION
PROTECTION CLASS   IP67
AIR SAFETY NUMBER   UN38.3
EUROPEAN CONFORMITY   93/66/EEC