



# POWERCORE

## Portable Power Supply

the lighter weight, longer running  
battery modules

### Overview

Tellemachus' PowerCore Energy Storage and Management System is a 12v non-hazardous, intrinsically safe, lithium battery solution.

PowerCore offers double the 'run-time' and less than half the weight of similar sized lead-acid batteries and with no mirror effect, the batteries can be recharged up to 3,500 times.

### Benefits

- Lighter - less than half the weight of similar sized lead-acid batteries
- Longer run time - double the run time of lead-acid batteries
- Smaller form factor - ideal for CROPS
- Lower discharge rate
- Environmentally friendly - no need to dispose of lead acid batteries
- Intrinsically sealed using non-hazardous materials (won't explode)
- Lower space requirements
- IP67 rated
- Maintenance free rugged mechanical design - water resistant, crush proof, dust and corrosion resistant
- Thousands of cycles under normal conditions with built in monitor charge
- Can be charged in any vehicle
- Built in automatic protection for over-charge, over-discharge and over-temperature conditions

### Applications

The Powercore battery energy storage and management systems can be used for a wide range of applications and are ideal for long-term surveillance operations, vehicle installs and crops.



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### IP67 Rated Lightweight Rugged Battery

#### General:

Operating Temperature: -10°C to 50°C  
 Storage Temperature: -40°C to 50°C  
 Maximum Temperature: DO NOT EXPOSE to temperatures greater than 60°C

#### Performance:

Output Current (continuous): 30A Max Continuous (80A/30 Seconds)  
 Operational Voltage: Nominal 12V DC (Low Volt Cut Out = 10V DC)  
 Battery Capacity: 40Ah  
 Energy Density: 84Wh/kg or 110Wh/L  
 Battery Type: Lithium-Ion, Phosphate Cathode Technology  
 Cyclic Life: >2000 Cycles at 80% Depth of Discharge  
 Memory Effect: None - No loss of capacity at partial depths of discharge / Charge  
 Safety: Built in Electronic Protection - No Thermal Runaway

#### External:

Colour: Black  
 Material: Ultra High Impact Copolymer  
 Handling: Rubberised Handles  
 Protection: Water and Dust Resistant, Crushproof, Corrosion Proof  
 Overall Weight: 12.6KG  
 Dimensions (HxDxL): 430mm x 244mm x 341mm

#### Mains Charging:

Input Voltage Tolerance: 195 - 265V AC  
 Input Frequency Tolerance: 50-60Hz  
 Charging Current (to battery): 10A @ Nominal 12VDC  
 Power Factor Correction: PF: 0.98  
 Charge Control: 3 Stage

#### Vehicle Charging:

Switch on Voltage: 13.0V DC  
 Charging Current (To Battery): 15A Max  
 Protection: Thermal, Over Current

#### Part Numbers:

TEL-HP-0005 Powercore R-12v 40Ah (ncs 12v/230V charging cables)

