



Ultra-low Energy Infrastructures

ELe's DC infrastructures enable the intelligent capture and distribution of renewable energy. Our compact battery solutions supply safe, reliable DC power in both domestic and commercial environments.

The Control Box provides access to real-time data in the palm of your hand. Our unique monitoring solution aids optimisation and enhances saving opportunities. The system is compatible with a wide range of devices, allowing the installation of specific technologies to suit project requirements.



Our Technology



The **ELe POD** is a lithium-ion battery solution, **independently verified** to last in **excess of 10 years**. Available in a range of sizes to suit storage requirements.



The **Control Box** manages power from multiple sources to provide a **reliable energy supply**. The system is monitored and controlled through the ELe App.

ELe Innovations



All **electronic devices require DC** to work. When converting **from AC to DC**, **energy is wasted** as heat. **ELe eliminates this loss** to deliver a **safe and efficient DC supply**.



We **distribute** both **power and data using a single ethernet cable**. **Existing wiring can be used** to power a wide range of devices in an intelligent manner.

Key Features

- A **single AC/DC conversion**
- Access to **real-time data**
- **Scheduled charging**
- **Emergency charge** function
- **AC back-up** supply (10A)
- **Scalable** battery storage
- **Temperature & humidity** sensing
- Remote monitoring
- **No additional cooling** required
- **Simple to install & maintain**

For more information

+44 (0) 1695 731 942
info@extremelowenergy.com
www.ExtremeLowEnergy.com

Technical Specification

	Min	Nominal	Max
AC Charging Specification			
Input Voltage Range AC (V)	180	-	250
Input Current Range AC (A)	0	-	6
Input Frequency Range AC (Hz)	50	-	60
Output Voltage Range DC (V)	0	57.6	-
Output Current Range DC (A)	0	-	10

DC Input Specification

Battery Input Voltage Range DC (V)	37.5	53	54.8
Battery Input Current Range DC (A)	-30	-	30
Solar Input Voltage Range DC (V)	-	48	54.8
Solar Input Current Range DC (A)	0	-	30

DC Output Specification

PoE Injector Port Output Voltage Range DC (V)	46	-	58
PoE Injector Port Output Current Range DC (A)	0	-	0.6
48V Output Voltage Range DC (V)	46	-	58
48V Output Current Range DC (A)	0	-	30

Environmental Conditions

Operating Temperature Range (°C)	0	-	45
Storage Temperature Range (°C)	-20	-	60
Relative Humidity (%)	5	-	95
Atmospheric Pressure (KPa)	70	-	106

Power Consumption

System Monitoring (W)		7	
PoE Injectors - Standby Mode (W)		<1	

Battery Specification

Cell Technology	Lithium Ion Phosphate (LiFe PO4)		
Lifecycle (0.5C/80%DOD)	3000+		
Capacity (Ah) ±2%	25 / 50 / 100		
Weight (kg)	15 / 30 / 60		

Wireless Connectivity

Air Interface	GSM		
Frequency Bands (Hz)(2G)	Quad Band - 850/900/1800/1900		

Space Requirements

Control Box 2U 19" - W x H x D (mm)	435 x 90 x 410		
Battery 4U 19" - W x H x D (mm)	436 x 180 x 334-540		