



Creating better
energy solutions

Power Cells

Features at a glance

Cell structure that naturally prevents thermal runaways

Remain 90% efficient after 20,000 cycles of usage

Will charge twice a day for a period of 20 years

Can be charged using off peak rate

Won't exceed 80 degrees - and stay within 5 degrees
of the ambient temperature when charging

Modular, stackable system easy to install and scale

Weigh just 20kg per 750W power cell

Comes with a full battery management system (BMS)
per 4500W

Example shown is of a 4500W stack with BMS





Power Cells

Catch Energy's market-leading power cells are safe, powerful and long lasting. They feature an optimum C4/C8 charge/discharge rate, and remain 90% efficient after 20,000 cycles of usage - that's twice a day for 20 years.

With thermal runaways mitigated, they're the safest cells on the market. What's more, cell temperatures never exceed 80°C, and charging temperatures are no more than 5°C above the ambient temperature.

Supplied as a fully assembled modular, stackable system, each 750W power cell weighs just 20kg. The system comes with a full Battery Management System (BMS) supporting 4500W.

Specifications (750W Separate Power Cells)

Nominal Parameters	Electrical Parameters
Voltage-48Vdc	Operation voltage- 32-54Vdc
Capacity-16Ah	Maximum charging voltage-54Vdc
Warranty-15 Years	Maximum charge Rate @ C4 - 64A
Dimensions (W/H/D)- 414mm x 140mm x 289mm	Maximum Discharge Rate @ C8 - 128A
Weight-20Kg	Network interface - RS485
Life time (2 cycles per day) @ C1- 20 Years	Communication protocols- MODBUS
Life cycling (100% DOD @ C1-25°C- >20,000 Cycles)	
Operation temperature- -30°C to 55°C	
Storage temperature- -30°C to 55°C	
Minimum number of cells required-3	

Specifications (6 x Power Cell Stack) + BMS

Nominal Parameters	Electrical Parameters
Rated Power - 4500W	Operation voltage- 32-54Vdc
Usable Power - 4500W	Maximum charging voltage-54Vdc
Voltage-48Vdc	Maximum charge Rate @ C4 - 64A
Capacity-96Ah	Maximum Discharge Rate @ C8 - 128A
Warranty-15 Years	Network interface - RS485
Dimensions (W/H/D)-414mm x 840mm x 289mm Inc. BMS (H)-990mm	Communication protocols- MODBUS
Weight-140Kg (Inc. BMS)	
Life time (2 cycles per day) @ C1- 20 Years	
Life cycling (100% DOD @ C1-25°C- >20,000 Cycles)	
Operation temperature- -30°C to 55°C	
Storage temperature- -30°C to 55°C	