



Endless Battery E50-40

The Endless Battery adds to the highly successful Zenaji Aeon Battery with improved cell protection, added inverter communications, a new more compact size and higher voltage.

Cutting edge battery delivering market-leading technology and economic savings

Zenaji Endless batteries offer the most **robust**, **safest**, **longest life** and most **cost effective** solution available today. The Endless Battery is **easy** to install and can be **expanded** in the future to provide you with peace of mind in your long term energy storage **investment**.

Inverter Communications

Inverter comms allow the Endless Battery to be used with a wider range of inverters than it's simpler cousin giving you more choice in the solar system you want to install.

Lifetime Solution

The Endless Battery is warranted for 22,000 cycles, with a 20 year warranty, and has a tough weatherproof aluminium case providing a lifetime energy storage solution.

Superior Performance

Each Endless Battery provides 2.02kWh of energy storage. Superior cycling performance allows 3+ cycles a day to take full advantage of your energy production and off peak energy pricing plan.

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Specification	E50-40				
Nominal Capacity (25°C \pm 5°C) (Useable Capacity)	2.02KWh (40Ah)				
Chemistry	Lithium Titanate (LTO)				
Dimensions (Height x Width x Depth)	1060 x 268 x 160 mm				
Nominal Voltage	50.3V				
Bulk Stage Voltage / Current*	56.4V / 20A If only one Bulk/Absorption stage available, use Absorption settings				
Absorption Stage Voltage / Current*	58.0V / 8A round down to closest number whe				
Float Voltage*	56.4V / 4A inverter setting isn't as precise				
High Cut-off Voltage	58.7V Voltages per series connection Currents per parallel connection				
Discharge Cut-off Voltage (Low Cut-off Voltage)	44.5V <i>round up</i> to closest number when				
Low Restart Voltage (Reconnect Voltage)*	47.8V inverter setting isn't as precise Voltages per series connection				
Mass	37kg				
Rated DC Charge/Discharge Current ($25^{\circ}C \pm 5^{\circ}C$)	40A (1C)				
Rated DC Charge/Discharge Power ($25^{\circ}C \pm 5^{\circ}C$)	2024W				
Max DC Charge/Discharge Current (10s, 25°C ± 5°C)	120A (3C)				
Max DC Charge/Discharge Power (10s, 25°C ± 5°C)	6072W				
Battery Management System	Internal cell balancing, failure detection and trip. Under-Voltage, Over-Voltage Over-Current, Over-Temp, Under-Temp protection and trip				
Inverter Communications	CANBUS, Modbus, Serial (with additional communications module)				
Isolation & Distribution Block Requirement	50A per parallel connection				
Battery Short Circuit Current	1750A				
Operating Temperature	-40°C to 60°C (recommended 5°C to 35°C)				
Storage Temperature	-5°C to 35°C				
Warranted Cycles (1C, 25°C ± 5°C)	22,000				
Depth of Discharge	100%				
Round Trip Efficiency (1C, 25°C ± 5°C)	97.5%				
Ingress Rating	IP65 (dust tight and sealed to protect from low pressure water jet)				
Installation	Indoors or outdoors				
Connections	6mm² (10 AWG) (Ø2.8mm) wire per pole, CANBUS out & pass throug				
Connectivity Options	Parallel and Series				
Warranty	20 Years or 22,000 cycles whichever comes first, to ≥80% capacity				

retention, see warranty document for details

*common two or three stage charge and discharge settings. For specific inverter settings, please contact Zenaji. For information on compatible inverters, chargers and charge parameters please visit ww.zenaji.com

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All product, service and technical data described subject to change without notice E50-40 Spec Sheet | DSS-48-001 | V1.3 | 5 July 2023

