

ECOSTORE ALTO

Technical Specifications



Specification	Value
Steady State Operating AC Voltage Range	180-260V (L-N)
Grid Connection	4 wire (3 phase + neutral)
Continuous Rating @ 50 °C	40kVA
Maximum Continuous Rated Current	63A
Active Power @ 50 °C	-40kW to 40kW
Reactive Power @ 50 °C	-40kVAr to 40kVAr
Nominal Frequency	50Hz
Installed Battery Energy Capacity (BOL)	86.4kWh
Battery Chemistry	LFP
Battery Cycle Life (90% DOD, 25°C Average)	5,400
Minimum Battery Calendar Life	15 years
Inverter/PCS DC Bus Voltage	675-972Vdc
Ambient Temperature	-20°C to 50°C
Maximum Solar Loading	1100 W/m ²
Cooling	Temperature-controlled variable-speed fans
Power Electronics Efficiency	98.5%
Current Harmonics	<4% THD at full load
Output Switching Frequency	24kHz
Audible noise	<45dBA at 1m
Communications	Ethernet interface to Cellular Modem, DNP3 & Modbus protocol supported
Anti-Islanding	Active and Passive as per AS/NZS 4777.2:2020
Voltage Dip Support	Voltage dips to 130V are supported via the injection of maximum reactive power
Enclosure	Powder-coated 304 Stainless Steel, "surf-mist" colour
Mechanical Protection	IP56 for electronics (EcoVAR) enclosure, IP54 or IP56 options for battery cabinet
Mounting	Pole-mounted via coach bolts
Dimensions (H x W x D mm)	EcoVAR: 1109 x 665 x 478 Battery Cabinet: 1855 x 1250 x 790
Weight	EcoVAR: Approx. 80kg Battery Cabinet: Approx. 916kg
Standards	Designed to AS/NZS 4777.2:2020, AS/NZS 5139:2019, AS/NZS 62477.1:2016, IEC 62619:2017, AS/NZS 61000.3.12, AS/NZS 60529:2004