

# ECOSTORE MEGA

## Technical Specifications - Battery



Specification	Value
System Type	S556H201 (0.5P)
Battery Cell	MB56 (628Ah)
Configuration	6 * 1P416S
Rated Energy / kWh	5,015.961
Nominal Voltage / V	1,331.2
Voltage Range / V	1,164.8 – 1,497.6
Duration/h	≥2
Thermal Management	Liquid Cooling
Dimension (W / D / H) / mm	6,058 x 2,438 x 2,896
Weight	≤43 tonne
Operation Temperature / C	-30°C – 55°C
IP Level	IP55
Corrosion Resistance Level	-C4 (C5 optional)
Noise level / dB@1m	≤ 75 ( ≤ 65 with noise attenuator)
Certifications	UN3536, UL9540, NFPA 68/69/855, IEC61000, IEC62477, IEC62933 AS/NZS 3000/3008/5139

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## Technical Specifications - PCS



Specification	Value
Ground-fault monitoring	Yes
Insulation monitoring	Yes
Lightning protection	Yes
Nominal AC Voltage <sup>1</sup>	710
Max AC Voltage Range	85%-115%
Rated apparent AC current [A] @ 95°F/35°C	3 x 1,500
Rated AC power. Pmax@ 95°F/35°C [kW] <sup>2</sup>	4,980
Rated AC power. Pmax@122°F/50°C [kW] <sup>2</sup>	4,980
Maximum output current	4,614
Total Current Demand Distortion (TDD)	<3%
Power factor	Adjustable
AC Cabinet	Integrated
AC/DC Efficiency: Maximum Peak   European Efficiency   CEC Efficiency <sup>3</sup>	98,84 / 98,5 / 98,5 (7)
Voltage range [Vdc]	987-1,550
Voltage range @ full power [Vdc]	987-1,550
Max. DC voltage [Vdc]	1,500
Operation ambient temperature (without derating)	[5°F, 140°F] / [-15°C, 55°C] (>95°F/ >50°C)
Maximum relative humidity (storage humidity without condensation)	100% (85%)
Max. altitude above sea level allowed (without derating) [masl]	4,000 (1,000)
Dimensions (W x D x H) [mm]	6,500 x 1,120 x 2,460 mm
Protection degree (Outdoor model) <sup>4</sup>	IP65
Directives applied for static inverters construction and design <sup>5</sup>	IEEE 1547-2018, UL 1741 – SA & SB, IEC 62477, IEC 62109-1, IEC 62109-2, IEC62109, IEC 60529, CE Marking, NEC Compliance IEC 61000-3-4, IEC 61000-3-11, IEC 61000-3-12, IEC 61000-6-4
Procedures for measuring efficiency	IEC61683, CEC requirements
EMC regarding immunity, interference, voltage variations, and flicker	UNE EN61000-4-2:2010 UNE EN61000-4-3:2007 UNE EN61000-4-4:2013 UNE EN61000-4-5:2015 UNE EN61000-4-6:2014 UNE EN61000-4-8:2011

1. Other voltage configurations are possible on request  
2. At nominal AC voltage, f= 50 Hz, VDC < 1500 V and cos φ = 1

3. Self-consumption is not considered in the efficiency measurement  
4. IP65 for power electronics and control devices

5. Other applicable standards / grid codes are possible