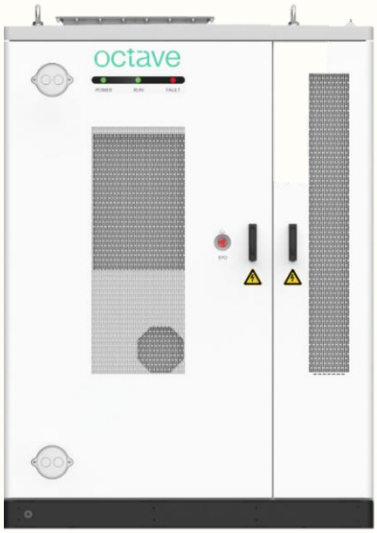
DATASHEET
OCTAVE One - 241

OUTDOOR 241 kWh - 100 kW



ITEM	VALUE	
Rated Energy	241 kWh	
Rated Power (AC)	105 kW	
Maximum Power (AC)	115.5 kVA (power listed by Synergrid)	
Rated Cell Capacity	314 Ah	
Charge/Discharge Rate	0.5 C	
DC voltage Range	672 V – 864 V	
DC Rated Voltage	768 V	
Cell Chemistry	LFP – Cell manufacturer: CALB (BNEF Tier 1)	
Lifetime	10 years, 6000 cycles, 65% SoH, 95% DoD*	
Battery BMS	Fully integrated BMS with: • Cell balancing; • Cell and battery string voltage & temperature monitoring; • Cell over- & under-voltage and temperature protection	
AC grid connection	400 V (-10% – +15%); 3P (+ N) + PE; Optional separate auxiliary power – only for BMS, not for airco/heater: 1P (+ PE)	
AC current	151.5 A (rated) / 167 A (max)	
Power factor	Fully controllable: -1 (lagging) ~ + 1 (leading)	
Grid Frequency	50 / 60 Hz	
THDi	< 3%	
Integrated Protection	AC overcurrent & Short-circuit current protection. AC surge protection: type II. Integrated emergency shutdown	
RTE	86.16% (including auxiliary power supply)	
Size (width x depth x height)	1600mm x 1040mm x 2254mm***	
Weight	2.60 ton	
IP-rating	IP55; Battery compartment: IP55	
Corrosion level	C4	
Climatization	Air conditioning unit and heater. Integrated de-humidifier.	
Noise level	≤ 82dB	
Operating temperature	-20°C ~ + 45°C**	
Storage temperature	-40°C ~+55°C: one month max. 0°C ~ 35°C: one year	
Relative Humidity	5%~95% (No condensing)	
Maximum operating altitude	2000 MASL	
Fire Protection	Automatic Aerosol Fire Suppression System. Smoke and temperature detector. CO & H2 sensor.	Inlet & Exhaust explosion fans (Atex-certified). Explosion vent on roof (Atex-certified). Water detection sensor
Certification	UN 38.3; CE LVD : IEC 62477-1; CE EMC: IEC 61000-6-2:2019 & IEC 61000-6-4:2019; IEC 62619; IEC63056 ; UL9540A (cells). EU Batteries Regulation 2023/1542. Grid connection: EN 50549-1/-2-10, VDE 4105, VDE 4110, VDE 4120, C10/11 Synergrid.	
Connectivity	LAN (RJ45). Modbus TCP/IP. Full remote monitoring of battery pack through Octave's battery cloud and dashboard	

* See specific terms&conditions in the Octave quotation **Power derating possible at high and low temperatures ***Exact dimensions can vary slightly ****ongoing.

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