

REPT
BATTERO

Powtrix™-i

2.09MW/4.180MWh All-in-One Energy Storage system



4.180MWh
High energy



High security
FSS Module-Level
and Container-Level



Flexible Configuration
2 Hour, 4 Hour, 8 Hour



3°C
Intelligent
temperature control

Datasheet

Product Model	Y104R04C10-BV
Thermal Management	Liquid Cooling for Battery module, HVAC for Battery Compartment, Forced Convection for inverter
Ambient Temp Range	-20°C to +50°C (-4°F to +122°F)
Altitude	De-rated over 3,000 meters

Electrical Parameters

Energy	4.180 MWhDC (314 Ah x 3.2 V x 104 Cells x 40 Modules)
Usable Energy*	3.887MWhAC
Configuration	2.090MWAc(2 hr.) /1.045MWAc(4 hr.) /0.523MWAc(8 hr.)
Discharge/charge Duration	2-8 Hours
Inverter Size	2.150 MVA (2 hr.)/1.075 MVA (4 hr.) /0.645 MVA (8 hr.)
Grid Voltage	690 V(AC), 3-Phase Delta
Grid Frequency	50, 60 Hz.
Round Trip Efficiency	86-88% (AC Bus, Beginning of Life, and 25°C)
Aux Power Consumption	27 kW (Peak), 20 kW (Avg.), 5 kW (Idle) - 2 hr.
Aux Power Factor (PF)	0.7
External Aux Transformer Size(Optional)	55 kVA (powtrix-i comes with 55 kVA Internal Aux. Transformer as Standard)

*Beginning of Life, 25 C

Mechanical Parameters

Dimensions(L x W x H)	10.08m x 2.44m x 2.94m (33.07ft x 8.00ft x 9.65ft)
Weight	~44,920 kg(~99,031 lbs.)
Design Life	20 Years
Ingress Rating	IP54, NEMA Type 3X
Noise	<70 dB(A) (at 5 meter)
Seismic Rating	Foundation Brackets to Meet Requirements in All Seismic Zones (EEE 693-2018)
System Safety	Fire Alarm Control Panel, Fire and Smoke Detector, Explosive Gas Detection, Active Ventilation, Dry Piping for Water Suppression, 2-Hr Firewall, SPD, AC and DC Circuit Breakers

Controls

Protocols&Interfaces	Protocols: Modbus TCP, DNP3, OPC UA, REST API; Interfaces: RTU/RTAC
Plant Controller	Energy Management System for Both Local and Cloud-Based Controller

Certification

Standards	UL 9540, UL 9540A, UL 1973, UL 1741, UL 1741SA, IEEE 1547.1, G99,UN 38.3, UN 3536, IEC 62477, ROHS, REACH, IEC 61000, IEC 62477, EN 50549, UK G99
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