



Performance Specifications	PowerCube 5	PowerCube 10	PowerCube 50 <small>(Customizable for higher capacity)</small>
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Nominal/ Operating DC voltage	48/ 40-59 VDC		480 -720 VDC
Rated Current	100A	100A	100 A
Nominal AC system voltage	210-240 VAC	1Φ : 210-400 VAC, 3Φ : 380-420 VAC	380-420 VAC
Phase	Single	Single or 3-phase	3-phase
Nominal system frequency	50/60 Hz		
Response Time	<100ms		

Energy Battery Storage	5kW/30kWh	10kW/100kWh	50kW/250kWh
Module Type	Vanadium Redox Flow Battery (VRFB)		
Rated Power Output (Continuous)	5 kW	10 kW	50 kW
Maximum Power (10mins)	7 kW	13 kW	55 kW
Rated Energy capacity	30 kWh	100 kWh	250 kWh
Storage Duration @Rated power	6 hours	10 hours	5 hours
Life expectation	25 years		
Module Cycle Life	>10,000		
Depth of Discharge	100%		
Round Trip Efficiency (DC-DC)	>80%		

Control System	
Control	Embedded
Communications Protocol, Interface	Modbus TCP/RTU, RS485, RS232, Ethernet
Remote Monitor	Inbuilt with Cloud IoT
Battery Management System, Fault Protection, DC Disconnect	Integrated
Third Party EMS Integration	Optional

Standard Compliance	
Safety	UL 1973, CE, IEC 62932-2-2 (all-in-progress)
Energy Storage and Equipment	UL 9540 (in-progress)

Physical Specifications			
Container dimensions (Depth x Width x Height /m)	1.7 x 1.5 x 2.0	3.05 x 2.44 x 2.89 <small>(std 10ft)</small>	6.1 x 2.44 x 2.89 <small>(std 20ft)</small>
Total installation weight in kg	1,000 kg	2,500 kg	5,000 kg
Total operational weight in kg	~3,000 kg	~9,000 kg	~24,000 kg

Environmental Specifications		
Ambient Operation temperature	-10°C to 55°C (14°F to 131°F)	
Electrolyte Life Environment	Infinity Indoor & Outdoor	
Recyclability Residual Value	100% recycle Up to 30% of initial cost recoverable	
Safety	Non-flammable, non-explosive	
Maintenance	Remote health check and yearly inspection	
Enclosure Rating	IP 54	
Cooling	Ventilation fan	Chiller (Optional)