



Reservoir Storage Unit

Modular, Scalable Solutions For Utility Scale Applications

RSU-4000 Series

Overview	RSU-4000/20	RSU-4000/16	RSU-4000/12
	RSU-4000/20	RSU-4000/16	RSU-4000/12
Overview			
Nameplate Energy Capacity (KWh.dc, usable)	4184	3347.2	2510.4
Individual Battery Blades - Factory Installed	20 of 20	16 of 20	12 of 20
Maximum Power - Factory Installed (KW.dc)	1200	960	720
Maximum DC Current - Factory Installed (A)	1600	1280	960
Available Augmentation Capacity (% BOL)	0%	25%	67%
Available Augmentation Capacity (kWh.dc)	N/A	836.8	1673.6
Key Features			
Battery Management System		GE Blade Protection Unit (BPU)	
Compatible Inverters		GE RIU-2750MV	
Remote Management		Reservoir Suite	
Solar DC Coupling		Yes (DC:AC Ratio <2.8)	
Integrated PV Combiner		Yes	
Integrated Lockable Disconnect		Module & Rack Level	
Augmentation Options for Lifecycle Management		Yes	
DC Bus Control		DC-IQ Intelligent Bus	
Battery LifeCycle Management		Digital Twin Life Optimization - Optional	
Unit Validation		Factory Built & Tested	
Design life (years)		25	
Battery Information			
Battery Chemistry		Lithium-Ion, NCM	
Battery Module Design		Energy	
Continuous C-Rate		<C/3	
Pulse C-Rate		<C/3	
Voltage Class		1500V	
Nominal DC Voltage (V)		1300	
Minimum DC Voltage (V)		770	
Mechanical Information			
Package Format		20' ISO w/Exterior Acces	
Dimensions (mm) (L X W X H)		6058 x 2438 x 2890 mm	
Weight (kg)	37k	31k	25k
Fully Integrated HVAC		Dual Self-Contained 3 Ton Units (High Efficiency 10. EER)	
- Hot Climate Upgrade		+33% Cooling Capacity	
- Cold Climate Upgrade		+ Electric Heating Package	
Fire Suppression - Aerosol		Optional	
Installation		Pad/Pier	
Cable Entry		Bottom	
Weatherization		NEMA 3R, IP54	
Design Conditions			
Min Operating Temperature (C)		-40°C	
Max operating Temperature (C)		50°C (55°C w/ hot climate upgrade)	
Maximum Altitude (m)		2000	
Maximum Relative Humidity (%)		95%, non-condensing	
Seismic Zone		UBC Zone-4	
Audible Noise		<60 dB at 3M	
Certifications & Compliance			
Certifications		UN38.3, UL 1973, UL 508C, CE	
Compliance		UL1642, UNDOT 38.3, IEC 62477-1, NFPA 70E, IEC 50110, ASTM4169, IEEE 605, IEEE C37.32	

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