Modular Energy Storage For Indoor Installations



RPSLinkIN 3Φ

Deploy Fail-Safe Energy Storage to meet any site's needs with **RPSLink** Modular Energy Storage System

KEY BENEFITS

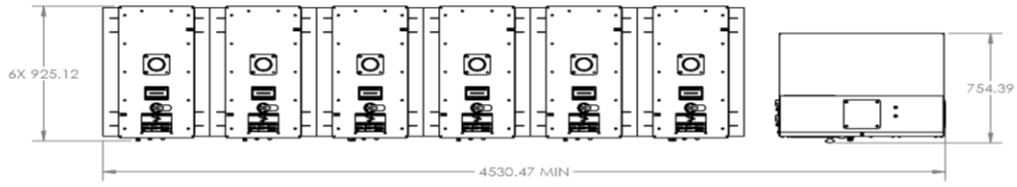
- Reduce On-Bill electricity costs by utilizing stored energy during high-priced peak periods and recharging during off-peak hours
- Maximize on-site renewables like wind and solar by capturing energy when they're overproducing for use later
- Decarbonize facility's energy use by utilizing clean stored energy when the grid is at its dirtiest
- Power through grid interruptions and outages with backup power stored on-site, Behind-The-Meter

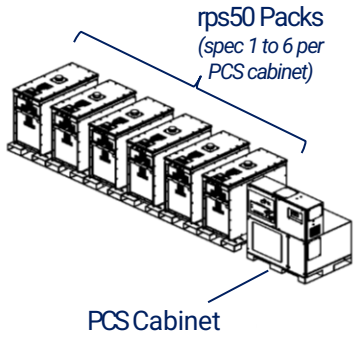
SAFETY

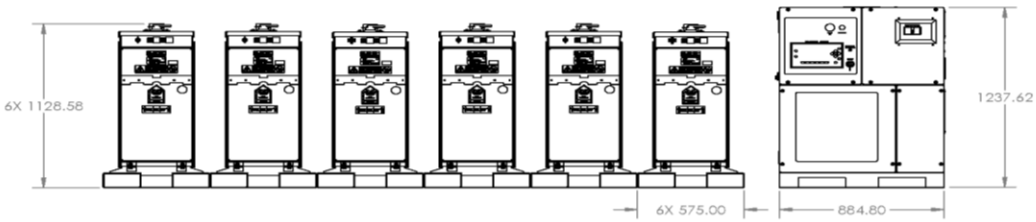
- Viridi RPS50 battery packs equipped with Fail-Safe thermal management and antipropagation technology to prevent Li-Ion battery fire
- Fail-Safe technology allows for unique permitting opportunities including BESS in and around occupied spaces and critical equipment
- Components are mounted on modular racking for convenient deployment inside the building, often without the need for incremental fire suppression or containment enclosures

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Model	480V-3p-300kWh-60kW	480V-3p-150kWh-30kW	480V-3p-100kWh-20kW	480V-3p-50kWh-10kW
System Contains	PCS Cabinet, qty=1	PCS Cabinet, qty=1	PCS Cabinet, qty=1	PCS Cabinet, qty=1
	Sinexcel PWS2-30P-NA, qty=2	Sinexcel PWS2-30P-NA, qty=1	Sinexcel PWS2-30P-NA, qty=1	Sinexcel PWS2-30P-NA, qty=1
	rps50 Packs, qty=6	rsp50 Packs, qty=3	rsp50 Packs, qty=2	rsp50 Packs, qty=1
DC-Nameplate Capacity	293.4 kWh	146.7 kWh	97.8 kWh	48.9 kWh
BOL DC-Usable Capacity	249.6 kWh	124.8 kWh	83.2 kWh	41.6 kWh
Max Continuous AC Power, Charge/Discharge	60 kW	30 kW	20 kW	10 kW
Operating Voltage	480VAC 3Φ 3W+gnd			
Max Continuous AC Current, Charging/Discharging	72.2A	36.1A	24.1A	12.0A
PWS2-30P-NA Fault Current Contribution [AC side short circuit current on-grid]	260A / 100 mS	130A / 100 mS	130A / 100 mS	130A / 100 mS
Maximum Overcurrent Protection Device Rating	125A	60A	60A	60A
Allowed Conductor Type & Size Range	Cu/Al, Solid Core at 2-8 AWG	Cu/Al, Solid Core at 2-8 AWG	Cu/Al, Solid Core at 2-8 AWG	Cu/Al, Solid Core at 2-8 AWG
	Cu/Al, Stranded at 2/0 -1 AWG	Cu/Al, Stranded at 2/0 -1 AWG	Cu/Al, Stranded at 2/0 -1 AWG	Cu/Al, Stranded at 2/0 -1 AWG
Recommended Conductor Sizing	1 AWG	6 AWG	6 AWG	6 AWG
Grounding Requirements	The grounding of the system and related components must comply with all applicable local electrical code of the installation.			
Auxiliary Power Requirements	RPSLinkIN is an autonomous unit requiring no auxiliary power fed from outside the PCS cabinet			
Backup Power	External Sinexcel PWD series Intelligent Transfer Switch required for RPSLink to auto-switch to off-grid mode and deliver power through a grid outage			
Operating Temperature Range [1]	-14°F to 113°F / -10°C to 45°C			
RPS50 Battery Pack Primary Lifecycle [2]	Approx 4,000 cycles to 80% of Beginning-of-Life (BOL) DC-Usable kWh Rating			
Communication / Telematics	VCom IoT device uses WIFI / LAN / 5G / LTE to report EMS and performance data to Viridi ViSTA®.			
	RPSLink typically communicates to ViSTA® via LAN or WIFI.			
PCS Cabinet Size and Weight (Depth x Width x Height)	27.46-inch x 28.54-inch x 49.33-inch 696.84 mm x 724.80 mm x 1353.09 mm 300lbs / 136kg (including mounting skid)			
RPS50 Cabinet Size and Weight (Depth x Width x Height)	22.638-inch x 36.03-inch x 44.24-inch 575.0 mm x 915.36 mm x 1123.93 mm 1,200lbs / 498.9kg (including mounting skid)			

Certifications	
UN 38.3 (cell, module)	IEEE 1547 (Sinexcel PWS2-30P-NA inverter) cTÜV SÜDus Listed
UL 2580 (cell) UL Recognized Component	NFPA 855, Standard for the Installation of Stationary Energy Storage Systems
UL 1642 (cell) UL Recognized Component	UL 1973 (rep50 pack) cTÜVus Listed
UL 1741 (Sinexcel PWS2-30P-NA inverter) cTÜV SÜDus Listed UL 1741 (Sinexcel PWD-100 & PWD-300 ATS Modules) cETLus Listed (optional component)	UL 9540A (cell/module/pack tested) UL 9540 (RPSLinkIN 3Φ BESS) cTÜVus Listed

[1] Operating temperature range mirrors battery cell specifications. The Battery Management System (BMS) is programmed to manage the pack utilization rate to control the internal pack thermal conditions and prevent operation outside of pack interior temperature limits, which can be tailored for different applications/ installations. The BMS communicates applicable operating conditions continuously via CAN bus to the inverter and/or system controller. ***Note:*** Charging and discharging is unconstrained within operating temperature 0°C to 45°C. Outside of that temperature range, BMS derates maximum charging and discharging.

[2] Cycle life can be optimized for individual applications and operating conditions (depth of discharge, duty cycle, temperature, charge/discharge rate).

FOR MORE INFORMATION

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