Modular Energy Storage For Exterior Installations



RPSLinkEX 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

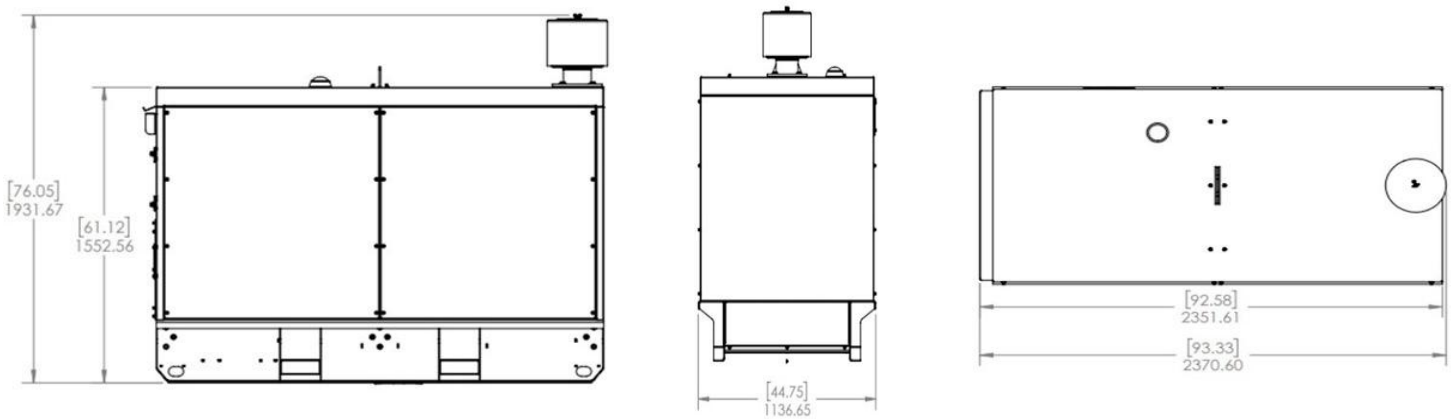
SAFETY

- 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
- System is skid mounted for convenient deployment outside the building, often without the need for incremental fire suppression or containment enclosures

Rev-E, 5-Nov-2026

RPSLinkEX

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Model	480V-3p-150kWh-30kW	480V-3p-100kWh-20kW	208V-3p-150kWh-30kW	208V-3p-100kWh-20kW	208V-3p-50kWh-10kW
System Contains	Sinexcel PWS2-30P-NA Inverter, qty=1	Sinexcel PWS2-30P-NA Inverter, qty=1	Sinexcel PWS2-30P-NA Inverter, qty=1	Sinexcel PWS2-30P-NA Inverter, qty=1	Sinexcel PWS2-30P-NA Inverter, qty=1
			30kVA 480/208 XFMR, qty=1	30kVA 480/208 XFMR, qty=1	30kVA 480/208 XFMR, qty=1
	RPS50 Packs, qty=3	RPS50 Packs, qty=2	RPS50 Packs, qty=3	RPS50 Packs, qty=2	RPS50 Pack, qty=1
DC-Nameplate Capacity	146.7 kWh	97.8 kWh	146.7 kWh	97.8 kWh	48.9 kWh
BOL DC-Usable Capacity	124.8 kWh	83.2 kWh	124.8 kWh	83.2 kWh	41.6 kWh
Max Continuous AC Power, Charge/Discharge	30 kW	20 kW	30 kW	20 kW	10 kW
Operating Voltage	480VAC 3Φ, 3W (Delta Configuration)	480VAC 3Φ, 3W (Delta Configuration)	208VAC 3Φ 4W (Wye Configuration)	208VAC 3Φ 4W (Wye Configuration)	208VAC 3Φ 4W (Wye Configuration)
Max Continuous AC Current, Charging/Discharging	36.1 A	24.1 A	83.3 A	41.6 A	27.8 A
PWS2-30P-NA Fault Current Contribution [AC side short circuit current on-grid]	130A / 100 mS				
Maximum Overcurrent Device Rating	60A	60A	125A	125A	125A
Allowed Conductor Type & Size Range	Copper-Aluminum Alloys Stranded Core at 2-8 AWG	Copper-Aluminum Alloys Stranded Core at 2-8 AWG	Copper-Aluminum Alloys Stranded Core at 2-8 AWG	Copper-Aluminum Alloys Stranded Core at 2-8 AWG	Copper-Aluminum Alloys Stranded Core at 2-8 AWG
Recommended Conductor Sizing	6 AWG	6 AWG	2 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	RPSLinkEX is an autonomous unit requiring no auxiliary power fed from outside BESS enclosure				
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				
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®.				
Dimensions (Overall) (Length x Width x Height)	93.33-inch x 44.757-inch x 76.05-inch 2370.60-mm x 1136.65-mm x 1931.67-mm				
System Weight	5150 Pounds, 2336 Kg (Not to Exceed)	4050 Pounds, 1837 Kg (Not to Exceed)	5600 Pounds, 2540 Kg (Not to Exceed)	4500 Pounds, 2041 Kg (Not to Exceed)	3400 Pounds, 1542 Kg (Not to Exceed)

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 (RPS50 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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Rev-E, 5-Nov-2026