

SPS P 25kWh through 100kWh Models Power Modules



Storage and Shipping Configuration



Deployed Configuration

The shift power solutions power modules are designed to meet several non traditional electrical requirements simultaneously. Compact, deployable, renewable, and scalable power generation is combined with our proprietary energy management and storage systems. These stand alone energy units can be used individually, in combination with other units, and can be integrated with existing power generation systems. Together they provide the most reliable, clean, and sustainable energy possible to meet a wide variety of load requirements. The core unit is designed around a storage system that utilizes highly reliable lithium ion chemistry batteries. The storage system acts as a power filter which mitigates the intermittency of the renewals and then is used to create perfect sine wave power generation. Our base units take in all forms of ac and dc inputs (regardless of their source) and then provides filtered and cleanly generated ac energy for consumption. Load feeding is then conducted on an as required basis which helps to eliminate wasted energy. Energy storage is available upwards to 100kwh in the same weather protective enclosure.

Model Capacity	25 KWH	35 KWH	50 KWH	70 KWH
Dimension H/W/L (inches)	72/72/68.5	72/72/68.5	72/72/68.5	72/72/68.5
Weight	3100 lbs	3400 lbs	4100 lbs	4400 lbs
Energy Storage: Chemistry/number of units	LiFeMgPo4/ 16	LiFeMgPo4/ 20	LiFeMgPo4/ 32	LiFeMgPo4/ 40
Battery Voltage/ Nominal Capacity/Wt	12.8V/138Ah/43.6LBS	12.8V/138Ah/43.6LBS	12.8V/138Ah/43.6LBS	12.8V/138Ah/43.6LBS
Storage Operating Temperature Range	-40°C to 50°C	-40°C to 50°C	-40°C to 50°C	-40°C to 50°C
Storage Operating Humidity	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing
Storage Water/ Dust Resistance	IP56	IP56	IP56	IP56
Storage Shock and Vibration	IEC61960, DIN VG96 924	IEC61960, DIN VG96 924	IEC61960, DIN VG96 924	IEC61960, DIN VG96 924
Storage Certifications	FCC Class B, CE, UL1642	FCC Class B, CE, UL1642	FCC Class B, CE, UL1642	FCC Class B, CE, UL1642
Storage Shipping Classification	UN 3090, Class 9	UN 3090, Class 9	UN 3090, Class 9	UN 3090, Class 9
DC Inputs	Wind, Solar, Genset, Battery	Wind, Solar, Genset, Battery	Wind, Solar, Genset, Battery	Wind, Solar, Genset, Battery
Base Unit Solar Array 175 Watt Panels	2.1 KW	2.1 KW	2.1 KW	2.1 KW
Solar Accessory Packs Rec	3x at 6.3 KW	4x at 8.4 KW	5x at 12 KW	7x at 16.8 KW
Actual Recharge Factor (solar day 5 hrs)	2.23	2.23	1.91	2.03
Wind Turbine	Customizeable	Customizeable	Customizeable	Customizeable
AC Inputs	120/240 1Ø /120/208 3Ø/ 277/480 3Ø	120/240 1Ø /120/208 3Ø/ 277/480 3Ø	120/240 1Ø /120/208 3Ø/ 277/480 3Ø	120/240 1Ø /120/208 3Ø/ 277/480 3Ø
AC Outputs	120/240 1Ø /120/208 3Ø/ 277/480 3Ø	120/240 1Ø /120/208 3Ø/ 277/480 3Ø	120/240 1Ø /120/208 3Ø/ 277/480 3Ø	120/240 1Ø /120/208 3Ø/ 277/480 3Ø
DC Outputs	12, 24, 48 VDC	12, 24, 48 VDC	12, 24, 48 VDC	12, 24, 48 VDC
Db(A) at 7 Meters Normal Operations	0 db(A)	0 db(A)	0 db(A)	0 db(A)
Internal Generator Rating Peak	3-5 KW Trifuel/Diesel	3-5 KW Trifuel/Diesel	3-5 KW Trifuel/Diesel	3-5 KW Trifuel/Diesel
Time to set up and feed load	20 minutes	20 minutes	20 minutes	20 minutes
Maintenance				

Available Accessories to Base Unit

- ☑ Leg Extensions for uneven terrain
- ☑ Ballistic Shielding: requirement based
- ☑ Wind Turbines: 1-20KW
- ☑ Grounding Kits
- ☑ Matte Black Powder Coating
- ☑ NATO Cable Extension: input and output
- ☑ Solar Accessory Packs
- ☑ Trailer Mounting
- ☑ Field wheel kit
- ☑ Distribution Panels
- ☑ Transfer Switch
- ☑ External Mounting Posts
- ☑ Generator Back Up Auto Start