

SPLV 6-17

IGNACORE

Energy Storage System



Safe and Secure

LFP (lithium iron phosphate, LiFePO_4) offers the highest safety.



Efficient Management

SoC estimation remains accurate and consistent under typical use.

- Inverter and Grid hybrid Power supply capable of withstanding continuous impact loads.
- Usable PV power up to 150% inverter rated power, Dual channel MPPT , 27A*2 PV input, compatible with all residential modules and flexible arrays.
- 200% EPS peak output in 5s.
- Up to 6 inverters in parallel or build three phase system.
- UPS-Level Switching time down to 10ms.
- Support diesel generator input.
- Supports use without battery. PV and grid can supply power to load together.
- Easy & intuitive LCD.
- Remote diagnostics & OTA update.

Model	SPLV 6-17
Permitted parallel number	1-6
AC mode	
Rated input voltage	230Vac $\pm 5\%$
Input voltage range	(170Vac-280Vac) $\pm 2\%$ (90Vac-280Vac) $\pm 2\%$ @APL
Frequency	50Hz/60Hz (Auto detection)
Frequency range	47 ± 0.3 Hz~55 ± 0.3 Hz (50Hz); 57 ± 0.3 Hz~65 ± 0.3 Hz (60Hz)
Overload/short circuit protection	Circuit breaker
Efficiency	
Conversion time (bypass and inverter)	10ms (typical)
AC reverse protection	Yes
Maximum bypass overload current	40A
Inverter mode	
Output voltage waveform	Pure sine wave
Rated output power	6200VA
Rated output power	6200W
Power factor	1
Rated output voltage	230Vac
Output voltage error	$\pm 5\%$
Output frequency range	50Hz ± 0.3 Hz / 60Hz ± 0.3 Hz
Maximum Efficiency	
Overload protection	(102%<load<125%) $\pm 10\%$: report error, turn off output after 5 minutes; (125%<load<150%) $\pm 10\%$: report error, turn off output after 10 seconds; load>150% $\pm 10\%$: report error, turn off output after 5 seconds
Peak power	12000VA

Load motor capability	4HP
Output short circuit protection	Circuit breaker
Bypass circuit breaker specification	40A
Rated battery input voltage	48V (Minimum starting voltage 44V)
Battery voltage range	40.0Vdc~60Vdc ± 0.6 Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery... settable on LCD screen)
Power saving mode self-consumption	Load ≤ 25 W
AC charging	
Battery type	Lithium battery
Maximum charge current (can be set)	80A
Charge current error	± 5 A _{dc}
Charge voltage range	40–60V _{dc}
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	40A
PV charging	
Maximum PV open circuit voltage	500V _{dc}
PV operating voltage range	120–500V _{dc}
MPPT voltage range	90–450V _{dc}
Battery voltage range	40–60V _{dc}
Maximum PV input power	6000W
Maximum PV input current	22A
PV charge current (can be set)	0–100A

Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Hybrid charging Max charger current specifications (AC charger + PV charger)	
Max charger current (can be set)	0-100A
Certified specifications	
Certification	CE (IEC62109-1,2)
EMC certification level	EN61000, C2
Operating temperature range	-10°C ~ 55°C
Storage temperature range	-25°C ~ 60°C
Humidity range	5% to 95% (Conformal coating protection)
Noise	≤60dB
Heat dissipation	Forced air cooling, variable speed fan
Communication interface	USB / RS485 / WiFi / GPRS / Dry node control
Size (L×W×D)	415 × 280 × 100 mm
Weight	7.8 kg
Battery	
Total Energy	16.89 kWh
Max. Discharge Power	12 kW
Rated Capacity	330 Ah
Voltage Range	48 – 56 Vdc
Nominal Voltage	51.2 Vdc
Operating Condition	Indoor
Charge Operating Temperature	-10 to 70 °C
Discharge Operating Temperature	-20 to 70 °C
Dimensions (W × D × H)	450 × 234 × 674 mm
IP Rating	IP20
Protective Class	I

Battery	
Parallel or Series Support (Maximum)	Up to 10 units in parallel or series
Relative Humidity (RH)	0 – 95% RH (non-condensing)
Cooling Type	Ambient cooling
Case Material	Metal
Installation	Floor Standing & Stack
Cycle	6000 Cycles @ 80% DoD
Communication	CAN / RS485
Protection Mode	Triple Hardware Protection
Fire Suppression	Integrated condensed aerosol
Battery Protection	Over-Current / Over-Voltage / Short Circuit / Under-Voltage / Over-Temperature
Transport	UN38.3 (tested); UN3480 as applicable

