

SPLV 6-20

IGNACORE

Energy Storage System



*For Reference Only



Safety

Built-in aerosol fire suppression system;
IP65 ingress protection



Convenient Control

Touchscreen displaying all battery
information; quick switching
communication protocols



Long-term Reliability

LFP battery, 6000 charge/discharge
cycles, @ 80% DoD



Easy Installation

Wall-mounted or floor-standing installation,
aesthetically pleasing and space-saving

CT Zero export to grid.

Inverter and Grid hybrid Power supply capable of withstanding continuous impact loads.

27A 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 6-10
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	
Nominal voltage (Vdc)	51.2
Rated capacity (Ah)	400
Energy (Wh)	20480
Battery impedance (mΩ)	≤50
Charging cut-off voltage (V)	56.16
Discharge cut-off voltage (V)	44.8
Recommend charge current	0.5C 200A
Scalable	Up to 15 units
Max charge current (A)	400
Max continue discharge current	400A, -20°C~60°C, ≤65±20%RH

Operating temperature range (°C)	-20~60
Environment	Outdoor / Indoor
Installation	Wall mounted / Floor stand
Cell technology	Lithium-iron phosphate (LiFePO4)
Life cycle	6000 times @80% DOD
Cooling	Natural convection
Protection rating	IP65
Certificates	IEC62619, UN38.3, MSDS, CE
Dimension (W/D/H mm)	800 × 590 × 142 (applicable only for a single battery)
Battery net weight (Approx.) (kg)	96.5x2 = 193

