

Split Phase Hybrid Inverter

120/240V Split Phase
208V 2/3 Phase
230V Single Phase



SPZ 15KW-LV | 10kW AC

SPZ 7.5KW-LV | 5kW AC

Spitzer Energy Storage Hybrid Inverter (Split-Phase)

Spitzer Energy's Storage Hybrid Inverter works with solar, batteries, the grid, and external generators. We support grid-tied solar, battery supported utility rate reduction, and emergency back-up options including on-grid and off-grid solutions.

Key Features

Excellent Performance

- Maximum efficiency 98.0%, battery efficiency 94.5%
- Maximum 15kW PV input power, continuously 10% output overload
- Maximum Charge/Discharge current 210A
- Large MPPT current, compatible with high-power solar panels
- Advanced parallel function

High Reliability

- Key components from international famous brands
- IP65 protection rating, good adaptability to complex outdoor environment
- Multiple protections built-in, AFCI, RSD

Safe & Reliable

- Standard Warranty (5 yrs) Extended (10 yrs)
- Passed UL1699B, IEEE1547, SRD V2.0, UL1741 SB, CEC, UL9540



Technical Specifications

Spitzer Energy Storage Hybrid Inverters (Split-Phase)

Technical specification	SPZ 7.5KW-LV	SPZ 15KW-LV
AC output		
Rated output power (kVA)	5,000W	10,000W
Max. apparent Power (kVA)	5,500VA	11,000VA
Max. output current (A)	25	50
Ac output voltage (V)	120/240 (split phase), 208 (2/3 phase), 230 (single phase)	
Frequency (Hz)	60	
PF	>0.99 @ rated power (adjustable 0.8 LD-0.8 LG)	
THDi	<3%	
Input (PV)		
Max. power (kW)	7,500W	15,000W
Max. DC voltage (V)	600	
MPPT voltage range (V)	70~540V	
Max. Input current of single MPPT (A)	30A/22A	30A/22A/22A
Max. short circuit current (A)	40A/30A	40A/30A/30A
Nos. of MPPT	2	3
MPPT tracker/strings	2/2	2/2/2
Battery		
Nominal battery voltage (V)	48V	
Battery voltage range (V)	40V-64V	
Max. charge/discharge current (A)	210A/130A	210A/210A
Max. charge/discharge power (W)	10,000W/5,000W	10,000W/10,000W
Battery type	Lithium-ion / Lead-acid	
Output (Back-up)		
Nominal output power (W)	5,000W	10,000W
Nominal output current (A)	20.9A	41.7A
Peak power (1s)	10,000VA	20,000VA
Nominal output voltage (V)	120/240 (split phase), 208 (2/3 phase), 230 (single phase)	
Nominal output frequency (Hz)	60Hz	
Transfer time	10ms	
THDV	<3% @ 100 R load	
General data		
Max. efficiency (PV to AC)	98%	
Max. efficiency (BAT to AC)	94.5%	
CEC efficiency	97%	
Ingress protection	IP65	
Operation temperature (°F)	-13°F ~ 149°F (>113°F Derating)	
Cooling	Fan air	
Relative humidity	0 ~100%	
Operation altitude (m)	2,000	
Dimensions W *D *H	16.54" x 1.5" x 9.45"	
Weight (lb)	81.57	
HMI & COM / Certification		
Display	LED + App	
RS485/Can (for BMS), DRM/RS485 (for Meter), RS485 Optional: Wi-Fi/GPRS/LAN		
Safety standard	UL1741, CSA C22.2, UL1699B	
EMC	FCC Part 15, Class B	
On-grid	UL1741 SB, IEEE1547:2018, HECO SRD 2.0, UL9540, CEC	
Warranty	5 years (Standard) / 10 years (Optional)	

Technical Specifications

Spitzer Energy Storage Hybrid Inverters (Split-Phase)

Protection	SPZ 7.5KW-LV	SPZ 15KW-LV
AC output		
Protection category	Class I	
DC switch	Yes	
Anti-islanding protection	Yes	
AC over current protection	Yes	
AC over voltage protection	Yes	
DC reverse protection	Yes	
Surge arrester	DC Type II, AC Type II	
Insulation detection	Yes	
Leakge current protection	Yes	
AFCI	Yes	
RSD	Support (MLRSD Sunspec)	

