

### Split Phase Hybrid Inverter

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



**SPZ HI-24KW-LV** | 16kW AC | 24kW PV

## Spitzer Energy Hybrid Inverters (Split-Phase)

Spitzer Energy's 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

#### Friendly & Flexible

- Automatic self-consumption (solar, battery, grid)
- Time-of-use for utility rate reduction
- Grid tied (with or without battery)
- Emergency back-up (automatic transfer in case of power failure)
- Off grid capability
- Closed-loop battery management system
- Easy to set-up (includes monitoring App)

#### Powerful & Expandable

- 4 MPPT trackers
- Connects up to 3 inverters in parallel (24-30kW AC)
- Connect up to 40kWh of LifePo4 batteries
- 100-200 Amp pass-through (charge/discharge)

#### Safe & Reliable

- Standard Warranty (10 yrs) Extended (20 yrs)
- Passed UL1699B, IEEE1547, CPUC Rule21, SRD V2.0, UL1741 SA, UL1741 SB, CEC, 9540A



## Technical Specifications

Spitzer Energy Hybrid Inverters (Split-Phase)

Technical specification	SPZ HI-24KW-LV
<b>AC output</b>	
Rated output power (kVA)	16
Max. apparent Power (kVA)	17.6
Max. output current (A)	41.7
AC output voltage (V)	(110-120)/(220-240) split phase, (240V) single phase
Frequency (Hz)	60 (55 to 65)
Max. AC current output to grid (A)	73.3
Max. grid passthrough current (A)	200
THDi	<3%
<b>Input (PV)</b>	
Max. power (kW)	24
Max. DC voltage (V)	500
MPPT voltage range (V)	120~500 / 120~430
Max. Input current of single MPPT (A)	14
Max. short circuit current (A)	22
MPPT tracker/strings	4
<b>Battery</b>	
Battery voltage range (V)	48-50
Max. charging voltage (V)	48
Max. charge/discharge current (A)	250/260
Battery type	Lithium /Lead-acid
Charging controller	3-Stage with equalization
<b>EPS output</b>	
Rated power (kVA)	16
Max apparent power (kVA)	17.6
Nominal output voltage L-N/L1-L2 (V)	120/240
Rated frequency (Hz)	60
Automatic switching time (ms)	<20
THDu	<2%
Output power factor	0.8 leading ~ 0.8 lagging
<b>General data</b>	
MPPT efficiency	99.9%
Europe efficiency (PV)	96.2%
PV to grid efficiency (PV)	96.5%
Battery to load efficiency	94.6%
PV to battery charging efficiency	95.8%
Grid to battery charging efficiency	94.5%
Output conduit (mm)	25.4
PV input conduit (mm)	25.4
BAT input conduit (mm)	35.4
Operating temperature range (°F)	-13~+140
Relative humidity	0-95%
Operating altitude	0~4,000m(Derating above 2,000m altitude)
Ingress protection	IP65/NEMA 3R
Built-in breaker	Optional
Weight (lb)	116 lbs (123 lbs with breaker)
Dimensions W*H*D (inch)	17.7 x 32.3 x 9.4
Cooling	Fan cooling
Noise emission (dB)	38
Display	LCD,Touch panel(optional)
Communication with BMS/Meter/EMS	RS485, CAN
Supported communication interface	RS485, WLAN, 4G (optional)
Self-consumption	<25W
Safety	UL1741, UL1741SA&SB all options, UL1699B, CSA -C22.2 NO.107.1-01,RSD(NEC690.5,II,III)
EMC	FCC part 15 class B
Support diesel generator	Yes
Grid connection standards	IEEE 1547, IEEE 2030.5, Hawaii rule 14H, Rule 21 phase I,II,III
Peak power off (Off grid)	110%,30s / 120%,10s / 200%,5s

**Dimensions**

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<b>Protection</b>	
Grounding detection	Yes
Arc fault protection	Yes
Island protection	Yes
Battery reverse polarity	Yes
Insulation resistor detection	Yes
Residual current monitoring unit	Yes
Output over current protection	Yes
Back-up output short protection	Yes
Output over voltage protection	Yes
Output under voltage protection	Yes

