



LV Split-phase Hybrid Inverter

RESIDENTIAL ENERGY STORAGE SOLUTION

Grid Down Generation: Continue generating power independently from the grid during prolonged power outages or blackouts. Never have to worry about how full your generator fuel tank is or manage run-times .

No Operating Cost: Minimal to no operating or maintenance costs. Most user-friendly method of backing up household loads.

DC to DC Architecture: Maximize your battery efficiency with DC-to-DC architecture. Your same kWh batteries last longer .

2*Military-Grade Reliability Option: Exceeds military-grade standards to keep working through lightning strikes and other military-grade weapons.

EV Home Charging: Charge your electric vehicle with the ability to load a single circuit.



Technical Specifications

Spitzer Energy Residential Storage Solution

PV Input

Max. Allowed PV Power(kW)	19.5
Rated MPPT Operating Voltage Range(V)	175 ~ 425
MPPT Voltage Range(V)	150 ~ 500
Startup Voltage(V)	125
Max. DC Input Voltage ¹ (V)	500
Max. Operating Input Current per MPPT(A)	26
Max. Short Circuit Current per MPPT(A)	44
No. of MPP Trackers	3
No. of PV Strings per MPPT	2
Max. AC Coupled Input(kW)	19.2

AC Output

Nominal AC Voltage(V)	120/240, 120/208, 220
Grid Frequency(Hz)	50 / 60
Real Power, max continuous(kW)	15
Max. Output Current(A)	62.5
Real Power, max continuous(kW)(batteries only)	12(50A @ 240V)
Peak Apparent Power(kVA)(10s, off-grid)	24@240V
Peak Apparent Power(kVA)(100ms, off-grid)	30@240V
Max Output Fault Current(A)(5s)	94(with PV), 75(batteries only)
Max Output Fault Current(A)(100ms)	120
Max. Grid Passthrough Current(A)	200
Power Factor Output Range	± 0.9 adjustable
Backup Transfer Time	5ms
CEC Efficiency	96.5%
Max Efficiency	97.5%
Design (DC to AC)	Transformerless DC
Stackable	Up to 12 in parallel

Battery Input

Battery Technologies	Lithium / Lead Acid
Nominal DC Voltage(V)	48
Operating Voltage Range(V)	43 ~ 63
Capacity(Ah)	50 ~ 9900
Max. Battery Charge / Discharge Current(A)	275
Battery Disconnecting Means(A)	200/pole*2
Charging Controller	3-Stage with Equalization
Grid to Battery Charging Efficiency	96.0%
External Battery Temperature Sensor (BTS)	Included
Automatic Generator Start (AGS)	2 Wire Start - Integrated
BMS Communication	CANBus, RS485 MODBUS

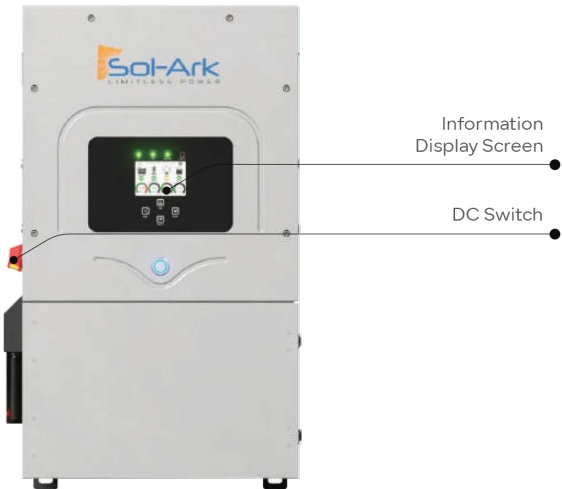
General Parament

Inverter Model	Limitless 15K-LV
Dimensions (W*D*H)	494*306*807mm / 19.4*12*31.8in
Weight	61.2kg / 135lb
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-25~55°C(> 45°C Derating)
Noise	< 30 dB @ 25°C (77°F)
Idle Consumption - No Load(W)	90
Communication and Monitoring	Wi-Fi & LAN Hardware Included
Standard Warranty	10 Years

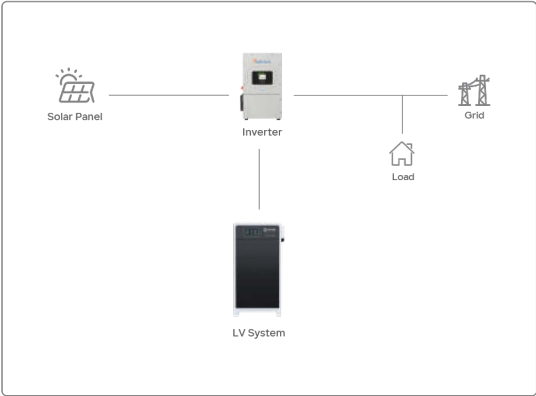
Protection & Certifications

Certifications and Listings	UL1741-2010/2018 IEEE1547a 2003/2014 FCC 15 Class B, UL1741SB CA Rule 21, HECO Rule 14H
PV DC Disconnect Switch — NEC 240.15	Integrated
Ground Fault Detection — NEC 690.5	Integrated
PV Rapid Shutdown Control — NEC 690.12	Integrated
PV Arc Fault Detection — NEC 690.11	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
AC Output Breaker - 200A	Integrated
Surge Protection	DC Type II / AC Type II

Product Details



System Layout



Application Scenario

