



PULSE SERIES

ALL-IN-ONE BATTERY ENERGY STORAGE SOLUTIONS

LiFeP04 Battery Technology

**Optimize your solar system and take control of your energy
for a more resilient future.**



Power Sonic "PULSE" is an All-In-One residential energy storage system that is the heart of your residential energy storage solution. The Pulse can store your excess solar energy for when you need it the most. A modular designed system with energy storage options from 5 ~ 40kWh combined with a 6000 ~ 12000W bi-directional hybrid inverter, keeping the energy flowing, even when there is a power failure.

When the sun is shining, your solar panels typically produce more energy than your home will use in a day. The All-In-One energy storage system can store that excess energy for instant access when you need it the most. Even if you don't have a solar system yet, you can use the energy storage system for backup during power outages and continue to use key appliances for longer when the unexpected happens.

POWER PS SONIC
TRUSTED BATTERY SOLUTIONS



SLA



UPS



LiFeP04



ESS

PULSE 1PHASE INVERTERS

Bi-Directional (Hybrid) Inverter
For All-in-One Battery Energy Storage System



INVERTER SPECIFICATIONS

PS-PULSE-INV-6 0KW

ELECTRICAL

Max. PV Input Power	12kW
Max. PV Input Voltage	580V (150V Start Voltage)
MPPT Range	80V - 560V
Rated Input Voltage	400V
Number of MPPT	2
Max. PV Input Current	15A * 2

AC OUTPUT (ON-GRID)

Rated AC Output Power	230 Volts
Output Voltage Range	150 ~ 280 Volts
Output Frequency Range	50/60Hz (Fluctuation range±0.2%)
Rated Input Current	31A
Max. Current From Grid	32A
Max. AC Apparent Power	7360VA
Max. Power Output to Grid	6000W
Max. Current Output to Grid	25A
Power Factor	0,8 Leading - 0,8 Lagging
THDi	<3%
Power Grid Disconnection	Internal bipolar miniature circuit breaker

AC OUTPUT (BACK-UP)

Max. Output Power	5000VA
Max. Output Current	20A
Automatic Switch Time	<20ms

PULSE 1PHASE INVERTERS

Bi-Directional (Hybrid) Inverter
For All-in-One Battery Energy Storage System



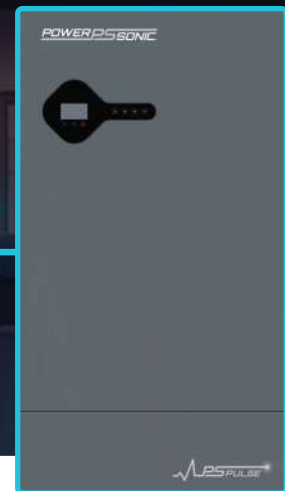
INVERTER SPECIFICATIONS

PS-PULSE-INV-6 0KW

PROTECTION	
Anti-islanding Protection	Yes
Output Over Current Protection	Yes
DC Reverse Polarity Protection	Yes
String Fault Detection	Yes
AC/DC Surge Protection	DC Type II - AC Type III
Insulation Detection	Yes
AC Short Circuit Protection	Yes
IP Protection	IP65
EFFICIENCY	
Max. PV Efficiency	97.60%
Euro. PV Efficiency	97.00%
BATTERY INPUT	
Charging Voltage Range	44-58V
Max. Charging Current	100A
Max. Discharging Current	100A
GENERAL	
Weight	32 Kg
Dimensions (W x H x D)	540 x 590 x 240 mm
Operating Temperature Range	-25°C~+60°C
Communication	RS485/CAN2.0/WIFI/4G
Safety	IEC/EN62109-1&2;IEC/EN61000-6-1;IEC/EN61000-6-2;EN61000-6-3;IEC/EN61000-6-4;IEC/EN61000-3-11;EN61000-3-12;IEC60529;IEC60068;IEC61683;IEC62116;IEC 61727;EN50549-1;AS4777.2;NRS097;VDE-AR-N-4105;CEI0-21;G98;G99;C10/C11

PULSE 3PHASE INVERTERS

Bi-Directional (Hybrid) Inverter
For All-in-One Battery Energy Storage System

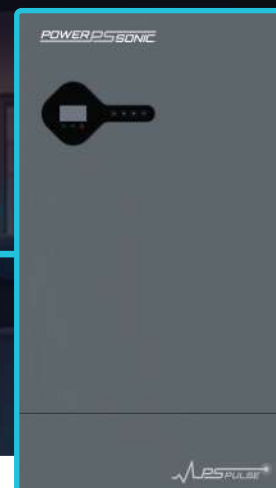


INVERTER SPECIFICATIONS

	PS-PULSE-INV-8.0KW	PS-PULSE-INV-10.0KW	PS-PULSE-INV-12.0KW
ELECTRICAL			
Max. PV Input Power	16kW	20kW	24Kw
Max. PV Input Voltage	1100V (200V Start Voltage)		
MPPT Range	140V - 1000V		
Rated Input Voltage	720V		
MPPT Range for Full Load	380V - 850V	420V - 850V	480V - 850V
Number of MPPT	2		
Max. PV Input Current	15A * 2		
AC OUTPUT (ON-GRID)			
Rated AC Output Power	400 Volts		
Output Voltage Range	380 ~ 415 Volts		
Output Frequency Range	50/60Hz (Fluctuation range±0.2%)		
Rated Input Current	23A	29A	35A
Max. Current From Grid	26A	32A	38A
Max. AC Apparent Power	8.8kVA	11kVA	13.2KVA
Max. Power Output to Grid	8kW	10kW	12kW
Max. Current Output to Grid	12.8A	16A	19.2A
Power Factor	0,8 Leading - 0,8 Lagging		
THDi	<3%		
Power Grid Disconnection	Internal bipolar miniature circuit breaker		
AC OUTPUT (BACK-UP)			
Max. Output Power	8kVA	10kVA	10kVA
Max. Output Current	11.6A	14.5A	14.5A
Automatic Switch Time	<20ms		

PULSE 3PHASE INVERTERS

Bi-Directional (Hybrid) Inverter
For All-in-One Battery Energy Storage System



INVERTER SPECIFICATIONS

PS-PULSE-INV-8.0KW

PS-PULSE-INV-10.0KW

PS-PULSE-INV-12.0KW

PROTECTION

Anti-islanding Protection	Yes		
Output Over Current Protection	Yes		
DC Reverse Polarity Protection	Yes		
String Fault Detection	Yes		
AC/DC Surge Protection		DC Type II - AC Type III	
Insulation Detection	Yes		
AC Short Circuit Protection	Yes		
IP Protection		IP65	

EFFICIENCY

Max. PV Efficiency	97.60%		
Euro. PV Efficiency	97.00%		

BATTERY INPUT

Charging Voltage Range		44-58V	
Max. Charging Current		160A	
Max. Discharging Current	160A	200A	200A

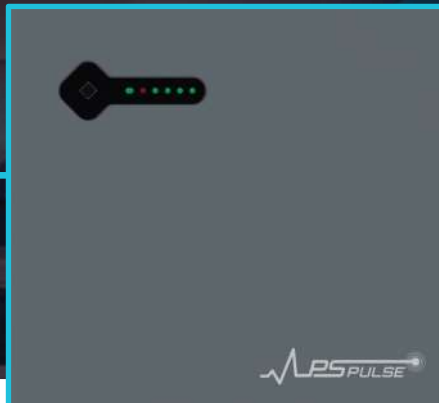
GENERAL

Weight		49 Kg	
Dimensions (W x H x D)		540 x 980 x 240 mm	
Operating Temperature Range		-25°C~+60°C	
Communication		RS485/CAN2.0/WIFI/4G	

IEC/EN62109-1&2;IEC/EN61000-6-1;IEC/EN61000-6-2;EN61000-6-3;IEC/EN61000-6-

PULSE BATTERY PACK

LiFePO4 Modular Battery Packs
For All-in-One Residential Energy Storage System



BATTERY SPECIFICATIONS

PS-RESS-510-EU

ELECTRICAL

Energy Capacity	5.12 kWh
Battery Type	LiFePO4
Depth of Discharge (DoD)	90%
Rated Voltage	51.2 Volts
Voltage Range	44.8 ~ 56.5 Volts
Cycle Life	10000 cycles (90% DoD, 25°C)

OPERATIONAL

Max. Charging Current	160A
Max. Discharging Current	200A
Operating Temperature Range	-10°C ~ 55°C (charging) / -20°C ~ 55°C (discharging)
Storage Temperature Range	-30°C ~ 60°C

BMS

Module Connection	Max. 4 batteries in parallel (Single Phase) Max. 8 batteries in parallel (3hree Phase)
Power Consumption	<2 W
Monitoring Parameters	Systems voltage, current, cell voltage, cell temperature, PCBA temperature
Communication	CAN and RS485
Ventilation Type	Passive and active cooling

GENERAL

Weight	54 Kg
Dimensions (W x H x D)	540 x 590 x 240 mm
IP Protection	IP65
Warranty	5 year product warranty, 10 year performance warranty (see warranty document for full details)
Safety	Pack: IEC/EN 62619;UN38. Cell: IEC/EN 62619;UN38.3;UL1973