

Wattsonic Li-HV Residential Single Phase Hybrid

3kW - 8kW optional



A home storage system designed to store your clean energy, so you can use it anytime you want. Say goodbye to power outage and power failure, our AIO system will accompany your new green life.

- ✓ Multiple protection, ultra safty
- ✓ Intimate functional design makes installation more easily
- ✓ All in one, plug and play
- ✓ Excellent quality assurance, a good companion to your family



PV Input	3.0KW	3.6KW	4.2KW	5.0KW	6.0KW	7.0KW	8.0KW
Max. DC Input Power [kW]	4.8	5.76	6.72	8.0	9.6	11.2	12.8
Start-up Voltage [V]	80						
Max. DC Input Voltage [V]*	600						
Rated Input DC Voltage [V]	360						
MPPT Voltage Range [V]	100~550						
Number of MPP Trackers	1	1	2	2	2	2	2
Number of DC Inputs per MPPT	1	1	1/1	1/1	1/1	1/1	1/1
Max. Input Current [A]	15	15	15/15	15/15	15/15	15/15	15/15
Max. Short-circuit Current [A]	20	20	20/20	20/20	20/20	20/20	20/20

Battery Side	3.0KW	3.6KW	4.2KW	5.0KW	6.0KW	7.0KW	8.0KW
Battery Type	Lithium Battery (with BMS)						
Battery Voltage Range [Vdc]	85~465						
Max. Charging/Discharging Current [A]	30/30						

Hybrid Inverter

Protection	Grid Side	3.0KW	3.6KW	4.2KW	5.0KW	6.0KW	7.0KW	8.0KW	
DC Reverse Polarity Protection	Integrated	Rated Output Power [kW]	3.0	3.6	4.2	5.0 ³⁾	6.0	7.0	8.0
Battery Input Reverse Connection Protection	Integrated	Max. Output Apparent Power [kVA]	3.3	3.96 ¹⁾	4.6	5.5 ⁴⁾	6.6	7.7	8.0
Insulation Resistance Protection	Integrated	Max. Input Apparent Power [kVA]**	6.0	7.2	8.4	10.0	12.0	12.0	12.0
Surge Protection	Integrated	Max. Charging Power of Battery [kVA]	3.0	3.6	4.2	5.0	6.0	7.0	8.0
Over-temperature Protection	Integrated	Rated AC Voltage [V]	L/N/PE; 220/230/240V						
Residual Current Protection	Integrated	Rated AC Frequency [Hz]	50/60						
Islanding Protection	Integrated	Max. Output Current [A]	15.0	18.0 ²⁾	21.0	25.0 ⁵⁾	28.7	35.0	36.3
AC Over-voltage Protection	Integrated	Power Factor	0.8 leading...0.8 lagging						
Overload Protection	Integrated	Max. Total Harmonic Distortion	<3% @Rated output power						
AC Short-circuit Protection	Integrated	DCI	<0.5%In						

General Data	Back-up Side	3.0KW	3.6KW	4.2KW	5.0KW	6.0KW	7.0KW	8.0KW	
Over Voltage Category	PV:II ; Main:III	Rated Output Power [kW]	3.0	3.6	4.2	5.0	6.0	7.0	8.0
Dimensions(WxHxD mm)	534x418x210	Max. Output Apparent Power [kVA]	3.3	3.96	4.6	5.5	6.6	7.7	8.0
Weight (KG)	27.0	Max. Input Current [A]	15.0	18.0	21.0	25.0	28.7	35.0	36.3
Protection Degree	IP65	UPS Switching Time	<10ms						
Standby Self-consumption(W)	<15	Rated Output Voltage [V]	L/N/PE; 220/230/240V						
Topology	Transformerless	Rated Output Frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Operating Temperature Range (°C)	-30~60	Peak Output Apparent Power [kVA]**	3.9,60s	4.7,60s	5.5,60s	6.5,60s	7.8,60s	9.1,60s	10,60s
Relative Humidity(%)	0~100	Voltage Harmonic Distortion	<3%@Linear load						
Operating Altitude(m)	3000(>3000m derating)	Efficiency	3.0KW	3.6KW	4.2KW	5.0KW	6.0KW	7.0KW	8.0KW
Cooling	Natural Convection	Max. Efficiency	97.6%						
Noise Level (dB)	<25	European Efficiency	97.0%						
Display	OLED & LED	Compliance	IEC/EN 62109, IEC/EN 61000, EN50549-1, TOR Generator Type A, VDE-AR-N 4105						
Communication	CAN, RS485, WiFi/LAN(Optional)								

* Max. operating DC voltage is 600V, max. withstanding DC voltage is 550V.

** Max. apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery.

*** The output power will exceed the rated value only when the power in the PV array is sufficient, and the duration of the overload is related to the overload power.

1) G98: 3.68kVA; 2) G98: 16.00A; 3) AS 4777.2: 5.0kW, VDE-AR-N 4105: 4.6kW;

4) AS 4777.2: 5.0kVA, VDE-AR-N 4105: 4.60kVA, C10/11: 5.0kVA; 5) AS 4777.2: 21.7A, VDE-AR-N 4105: 21.0A, C10/11: 21.7A.