

Li-HV Residential

Single Phase Hybrid Series

Inverter Options 3.0/3.6/4.2/5.0/6.0/7.0/8.0kW

HV Battery Options 2.3 kWh 6.9/9.2/11.5kWh 3.84 kWh 11.5/15.3/19.2kWh

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Multi-protection, ultra safe

Easy installation and O&M

Superior compatibility

Within 10ms UPS-level switching

Low operating noise

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Facilitation of installation

Install without hesitation, since the design of AIO and plug-and-play. Especially with the 3-in-1 cable innovation, the battery module connection is straightforward when combined with Power, COM, and Ground cables.



Wattsonic packed everything you'll need, including necessary items and ready accessories, filled with connectors and cables. There is no need for additional preparation.

Power

Com.

Earthing together



Robust Load & Backup

Up to 97.6% max efficiency
Max. 15A PV input current
Max. 30A charge/discharge current
Both on & off-grid ports can be paralleled

Dynamic adaptation

85-465V super wide battery voltage range Integrated Smart EMS support various power applications

Long Cycle Life & Superb Performance

10 years10,000 cyclesstandard warrantyat 90% DODIC/IC continual charge and dischargeI5A PV Input Current, 2 MPPTs

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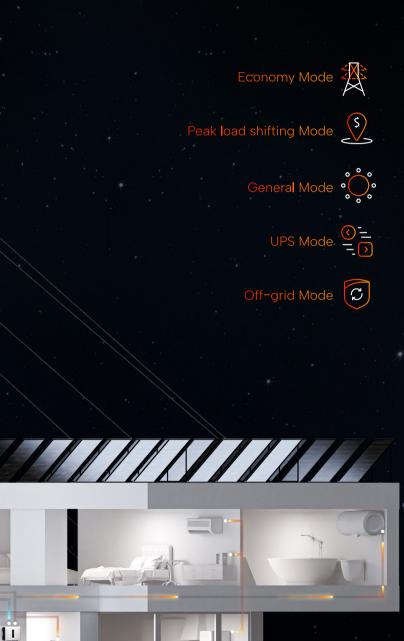
Intelligent O&M Everything is under control

Through the multifunctional LCD and numerous applications, it enables excellent remote control and data monitoring. Software checks, updates, and bug fixes are available anytime and anywhere. It also serves as a communication channel for quick after-sales support.



More than a spark of creation

Cloud-based artificial intelligence algorithms will constantly check the data to create the appropriate automatic, built-in operating mode for your home. You may switch via the app between general and various running modes with a quick glimpse and click.







Multi-protection from self-developed technology.

Your reliable residential ESS

Why can this series maintain stable performance and safe operation? The secret is that Wattsonic improves power battery consistency by strictly controlling various performance indicators such as lithium battery cell capacity, internal resistance, temperature characteristics, and decay speed. We also decrease the standard deviation between product batches by tightly managing numerous procedures. The whole system was safety tested and certified by Dekra/TUV Germany.



VETTSONIC

VATISONIC

Master BMS

	Master BMS-2.3	Master BMS-3.84
Operation Voltage [Vdc]	200~900	200~900
Max. Charge/Discharge Current [A]	30	50
Recommend Charge/Discharge Current [A]	30	50
Functions	Pre-charge, Over-Less Voltage/Over-Less Tem Cells Balancing/SOC-SOH calculation etc.	perature Protection,
Communication Protocol/Connector Type	CAN/RS485 ModBus, TCP/IP	CAN/RS485 ModBus, TCP/IP
Power Connection Type	Integrated connector	Integrated connector
User Interface	LCD Display(Optional, need to confirm upon or	der)
Dimension [W*H*D mm]	557*319*152.6	680*319*152.6
Neight	llkg	13kg
Operating Temperature [-20~55	-20~55
Ingress Protection	IP21(Optional IP65 , need to confirm upon order)
Installation Method	Stackable or Wall Mounted	Wall Mounted
Warranty	10 years	10 years

Battery Module



*Battery System Configuration Options[2.3kWh]: 230V/6.9kWh, 307V/9.2kWh, 384V/11.5kWh,

*Battery System Configuration Options[3.84kWh]: 230V/11.5kWh, 307V/15.3kWh, 384V/19.2kWh.

*Wattsonic reserves the right to modify the technical datasheet and apperance of the product in the cataloge without prior advice to the users.

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		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				
x (2)		Number of MPP Trackers	1	1	2	2	2	2	2	
943 (2004) # 943 (2004) 943 (2004) #		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)					
lybrid Inverter		Battery Voltage Range [Vdc]				85~465				
iyona mve	rier	Max. Charging/Discharging Current [A	4]			30/30				
			2.01/14/	0 41/141	1.01/04/	E OLAN	4 01/14/	7.01/14	0.01/14	
Protection DC Reverse Polarity Protection	Integrated	Grid Side Rated Output Power [kW]	3.0KW 3.0	3.6KW 3.6	4.2KW	5.0KW 5.0 ³⁾	6.0KW 6.0	7.0KW 7.0	8.0KW 8.0	
,	2				4.2					
Battery Input Reverse Connection P		Max. Output Apparent Power [kVA]	3.3	3.961)	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	18.02)	21.0	25.05)	28.7	35.0	36.3	
AC Over-voltage Protection	Integrated	Power Factor	0.8 leading0.8 lagging							
Overload Protection	Integrated	Max. Total Harmonic Distortion	< 3% @Rated output power							
AC Short-circuit Protection	Integrated	DCI				<0.5%ln				
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(W×H×D mm)	534×418×210	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							
Тороlоду	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 l	bad			
Operating Altitude(m) 3000(>	3000m derating)									
Cooling Na	tural Convection	Efficiency	3.0KW	3.6KW	4.2KW	5.0KW	6.0KW	7.0KW	8.0KW	
Noise Level (dB)	<25	Max. Efficiency				97.6%				
		E E(())				07.0%				
Display	OLED & LED	European Efficiency				97.0%				

 * Max. operating DC voltage is 600V, max. with standing 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; 5AS 4777.2: 21.7A, VDE-AR-N 4105: 21.0A, C10/11: 21.7A.