

Li-HV Commercial Three Phase Hybrid AIO ESS

Inverter Options

25/30/40/50kW-100A-3P HV Battery Options 65/130/195/261/326kWh



Cable-free design inside the cabinet



Simple installation and O&M

Support system parallel to realize upgraded capacity



Up to 98.8% max efficiency

Intelligent operation, keep everything under control in a single click

With remote monitoring and upgrade, worry free from service





Unburdened by complex procedures.



Simplified installation, all-in-one plug and play. The most recent cable-free design guarantees zero cables inside the cabinet. With packed connectors and cables, Wattsonic prepares all essential products and accessories you may require. No further preparation is needed.



Flexible logistics management supports random collection and delivery. Based on superior compatibility, a single rack could match the battery and BMS loading randomly without checking in advance.





Upgraded Capacity.

Both parallel and off-grid ports can be connected in our commercial energy storage systems, parallel operation capability from kilowatts to megawatts.

Up to 100% unbalanced load

Up to**110%** AC output overloading 135-750V super wide battery voltage range

 $| \begin{array}{c} \text{Up to} 120\% \\ \text{overloading output} \end{array} for \begin{array}{c} 60 \text{ seconds} \\ \text{at back-up side} \end{array} \\ \\ \end{array} \\$

|100A | charge/Discharge

More than capable, pring power to a new stage

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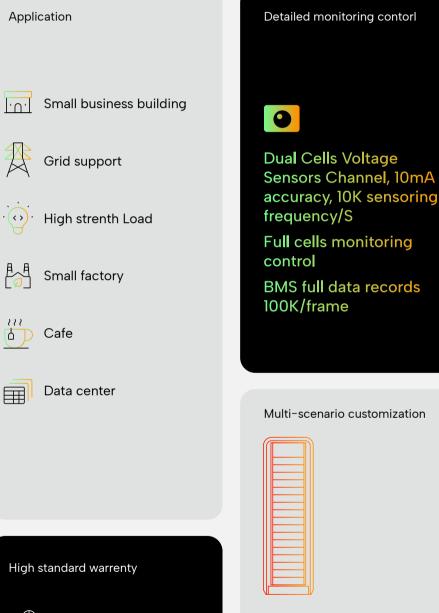
Intelligent control methods to keep everything in sight.

Comprehensive back-end data —— Inverter/battery system/options with features Easy data check via both OLED display and App Support remote monitoring and update Operating efficiency, one button to switch BMS open interface for direct connection with fire fighting equipment and control Multi external communication methods: WiFi /LAN /GPRS /RS485





Revolutionizing the way small businesses power their operations.



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10 years or 8,000 cycles@90% DOD Outdoor-proof versions of products Intensified waterproof

Intensified waterproof design

Ultra safety

\mathcal{P}

BMS SPD integrated for DC surge power protection

(JP65 protection degree

Long designing life



BMS structure capacitor-free designing, 15-20 years of designing life

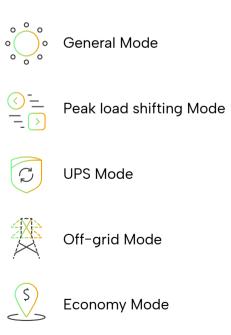




Customizable running modes

High-efficient Operation.

To address your unique needs, Wattsonic offers various built-in operating modes. PV Power will adjust the loads, battery, and grid supply in different methods and sequences. Moreover, Cloud-based AI algorithms will continuously analyze the data. Automatically develop a more precise production and consumption pattern for your home.





Master BMS

Operation Voltage [Vdc] Max. Charge/Discharge Current [A] Recommend Charge/Discharge Current [A] Functions Pr 0 С Communication Protocol/Connector Type Power Connection Type User Interface Dimension [W*H*D mm] Weight Operating Temperature [°C] Ingress Protection Installation Method Warranty

38.4V/3.84kWh Battery Module

Nominal Voltage/Capacity per Module
Expand Capability
DOD Recommended
Max. Charge/Discharge Current[A]
Recommend Charge/Discharge Current[A]
Communication Protocol/Connector Type
Power Connection Type
Dimension [W*H*D mm]
Weight
Charge Temperature Range [°C]
Discharge Temperature Range [°C]
Ingress Protection
Installation Method
Cables Connection
Warranty

Cabinet Frame

Dimension [W*H*D mm]

	150~900V/900~1500V
	(Need to confirm upon order)
	100
	100
Over	charge, Over-Less Voltage/ r-Less Temperature Protection, s Balancing/SOC-SOH calculation etc.
	CAN/RS485 ModBus,
	TCP/IP/ RJ45/WiFi/LAN/GPRS
	Amphenol MC4
	LCD Display(Optional,
	need to confirm upon order)
	449*188*740.4
	11.8kg
	-20~55
	IP21
	Rack Mounted
	10 years

38.4V/3.84KWH
String:Max. 1000V[20*3.84kWh],
Optional 1500V[34*3.84kWh]
90%
100A Continual
100A Continual
CAN/ RJ45
Phoenix
445*95*737.8 per module
38kg
0~45
-20~55
IP21
Rack Mounted
Connection at front
10 years or 8,000 cycles@90% DOD

640*2109*870







Three Phase Hybrid Inverter

	25kW	30kW	36kW	40kW	50kW	
PV Input						
Max. Input Power (kW)	37.5	45.0	54.0	60.0	75.0	
Start-up Voltage (V)	135	135	135	135	135	
Max. DC Input Voltage (V)*	1000*	1000*	1000*	1000*	1000*	
Rated DC Input Voltage (V)	620	620	620	620	620	
MPPT Voltage Range (V)*	200-850*	200-850*	200-850*	200-850*	200-850*	
No. of MPP Trackers	4	4	4	4	4	
No. of DC Inputs per MPPT	2	2	2	2	2	
Max. Input Current (A)	30×4	30×4	30×4	30×4	30×4	
Max. Short-circuit Current (A)	40×4	40×4	40×4	40×4	40×4	
	10 1	10 1	10 1	10 1	10 1	
Battery Side			·			
Battery Type		Liti	nium Battery (with BM	15)		
Battery Voltage Range (V)			135-750			
Max. Charge/Discharge Current (A)			100/100			
Grid Side						
Rated Output Power (kW)	25.0	30.0	36.0	40.0	50.0	
Max. Output Apparent Power (kVA)	27.5	33.0/30.01)	39.6	44.0	55.0	
Max. Input Apparent Power (kVA)**	30.0	36.0	43.5	48.0	60.0	
Max. Charging Power of Battery (kW)	25.0	30.0	36.0	40.0	50.0	
Rated AC Voltage (V)		3L/N/PE; 2	20/380V; 230/400V;	240/415V		
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	
Max. Output Current (A)	42.0	50.0/43.52)	60.0	66.0	83.0	
Power Factor		0	.8 leading 0.8 laggir	na		
Max. Total Harmonic Distortion			% @Rated output pov	-		
DCI	<0.5%In	<0.5%In	< 0.5%In	<0.5%In	<0.5%In	
Deals un Cide						
Back-up Side	05.0			10.0	50.0	
Rated Output Power (kW)	25.0	30.0	36.0	40.0	50.0	
Max. Output Apparent Power (kVA)	27.5	33.0	39.6	44.0	55.0	
Max. Output Current (A)	42.0	50.0	60.0	66.0	83.0	
UPS Switching Time	<20ms	<20ms	<20ms	<20ms	<20ms	
Rated Output Voltage (V)			20/380V; 230/400V;			
Rated Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	
Peak Output Apparent Power (kVA)**	** 30, 60s	36, 60s	43.5, 60s	48, 60s	60, 60s	
Voltage Harmonic Distortion			<3% @Linear load			
Compliance	IEC/EN 621	09, IEC/EN 61000, E	N50549-1, TOR Gene	erator Type A, VDE-A	AR-N-4105	
Protection		General	Data			
DC Reverse Polarity Protection	Integrated		Over Voltage Category		ain: 🎞	
Battery Input Reverse Connection Pro	-		Dimensions (W×H×D mm)		800×620×300	
Insulation Resistance Protection	Integrated Weight (KG			72.0		
Surge Protection	Integrated	-	ion Degree	IP65		
Over-temperature Protection	Integrated		/ Self-consumption (V			
Residual Current Protection	Integrated	Topolog		Transform	erless	
Islanding Protection	Integrated		ng Temperature Rang		511000	
AC Over-voltage Protection	Integrated		Humidity (%)	0-100		
Overload Protection	Integrated		ng Altitude (m)		000m derating)	
AC Short-circuit Protection	-	· ·	-		-	
AC Short-circuit Protection	Integrated	Cooling		Smart Fan		
			evel (dB)	< 50		
		Display		OLED & LE		
		Commu	inication	CAN, RS48	35, WiFi/LAN (Optio	

* PV Max. Input voltage is 850V, otherwise inverter will be waiting

** 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

1) AS 4777.2, VDE-AR-N 4105: 30.0kW 2) AS 4777.2, VDE-AR-N 4105: 30.0kVA 3) AS 4777.2, VDE-AR-N 4105: 43.5A

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

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