

Li-HV Commercial Three Phase Hybrid AIO ESS

 Inverter Options
 25/30/36/40/50kW-100A-3P

 HV Battery Options
 Li-HV-69/130/195/260/325kWh



Up to 98.8% max efficiency



Module design | Plug and play



Flexible logistics management



High efficiency operation, keep everything under control

Intelligent management, support remote monitoring and upgrade





Incredible capacity, **Trustworthy security**



High standard warrenty 10 years or 8,000 cycles@90% DOD

	ſ	_)
$\left[\right]$	4		
ì	1	Τ	

BMS SPD integrated for DC surge power protection

IP65 protection degree Outdoor-proof versions of products Intensified waterproof design

Up to 120% for 60 seconds overloading output at back-up side

From KW to MW level

|Up to 100% unbalanced load

100A Parallel operation capacity support system size charge/Discharge

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



www.wattsonic.com





WattDesk supported

Got it all under control through WattDesk.

Whether you use a mobile phone or computer, WattDesk could deliver back end data checking, updating, and security alarms about your business or professional applications. You can also have quick access to after-sales support through this communication channel. All of these will make your work easier.

www.wattsonic.com



Use it in whatever way you like, just one click.

To facilitate how you generate a more accurate and local policy-compliant production and consumption pattern for your home, Wattsonic comes with several built-in operating modes. Cloud based artificial intelligence algorithms will constantly check the data to remind you to choose the appropriate modes.



www.wattsonic.com



Master BMS

Operation Voltage [Vdc]	150~900V/900~1500V		
	(Need to confirm upon order)		
Max. Charge/Discharge Current [A]	100		
Recommend Charge/Discharge Current [A	4] 100		
Functions P C C	re-charge, Over-Less Voltage/ over-Less Temperature Protection, cells Balancing/SOC-SOH calculation etc.		
Communication Protocol/Connector Type	CAN/RS485 ModBus,		
	TCP/IP/ RJ45/WiFi/LAN/GPRS		
Power Connection Type	Amphenol MC4		
User Interface	LCD Display(Optional,		
	need to confirm upon order)		
Dimension [W*H*D mm]	517.6*180*367		
Weight	11.8kg		
Operating Temperature [C]	-20~55		
Ingress Protection	IP21		
Installation Method	Rack Mounted		
Warranty	10 years		

38.4V/3.84kWh Battery Module

Nominal Voltage/Capacity per Module	38.4V/3.84KWH
Expand Capability	String:Max. 1000V[20*3.84kWh], Optional 1500V[34*3.84kWh]
DOD Recommended	90%
Max. Charge/Discharge Current[A]	100A Continual
Recommend Charge/Discharge Current[A]	100A Continual
Communication Protocol/Connector Type	CAN/ RJ45
Power Connection Type	Amphenol MC4
Dimension [W*H*D mm]	489*95*768.5 per module
Weight	38kg
Charge Temperature Range [C]	0~45
Discharge Temperature Range [C]	-20~55
Ingress Protection	IP21
Installation Method	Rack Mounted
Cables Connection	Connection at front
Warranty	10 years or 8,000 cycles@90% DOD

Cabinet Frame

Dimension [W*H*D mm] 640*1970*850







Three Phase Hybrid Inverter

	25kW	30kV	N	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*	200-85	50*	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	4	30×4	30×4	30×4	
Max. Short-circuit Current (A)	40×4	40×4	4	40×4	40×4	40×4	
Battery Side							
Battery Type			Lithi	um Battery (with BM)	S)		
Battery Voltage Range (V)			Liiii	135-750	0)		
Max_Charge/Discharge Current (A)				100/100			
				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	0.01)	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; 220	PE; 220/380V; 230/400V; 240/415V			
Rated AC Frequency (Hz)	50/60	50/6	0	50/60	50/60	50/60	
Max. Output Current (A)	42.0	50.0/43	3.52)	60.0	66.0	83.0	
Power Factor			0.8	leading 0.8 laggi	ng		
Max. Total Harmonic Distortion			<3%	@Rated output pow	t power		
DCI	<0.5%In	<0.5%	6In	<0.5%In	<0.5%In	<0.5%In	
Back-up Side							
Rated Output Power (kW)	25.0	30.0)	26.0	40.0	50.0	
Max Output Apparent Power (kVA)	27.5	33.0)	30.0	44.0	55.0	
Max. Output Current (A)	42.0	50.0)	39.0	66.0	83.0	
UPS Switching Time	<20ms	<20m	ns	<20ms	<20ms	<20ms	
Rated Output Voltage (V)	1201110	2/NI/DE, 200/2800/, 220 (400)/, 240 (415)/					
Rated Output Frequency (Hz)	50/60	50/6	0	, 400%, 230/400%,	50/60	50/60	
Peak Output Apparent Power (kVA)***	30, 60s	36.60	Os	43.5 60	48, 60s	60, 60s	
Voltage Harmonic Distortion		00, 00		<3% @linear load	,	,	
					_		
Compliance	IEC/EN 6	2109, IEC/E	:N 61000, E	N50549-1, TOR Ge	nerator Type A, VDE-Al	R-N-4105	
Protection			General Da	ita			
DC Reverse Polarity Protection	Integrated		Over Voltag	ge Category	PV: II; Main: III		
Battery Input Reverse Connection Protection	Integrated		Dimensions	s (W×H×D mm)	800×620×300		
Insulation Resistance Protection	Integrated		Weight (KG) Protection Degree Standby Self-consumption (W) Topology Operating Temperature Range (°C Relative Humidity (%)		72.0		
Surge Protection	Integrated				IP65 <15		
Over-temperature Protection	Integrated						
Residual Current Protection	Integrated						
Islanding Protection	Integrated						
AC Over-voltage Protection	Integrated						
Overload Protection	Integrated		Operating <i>J</i>	Altitude (m)	3000 (>3000m de	erating)	
AC Short-circuit Protection	Integrated		Cooling		Smart Fan		
	Ū	Noise L		l (dB)	<50		
D				Display OLED & LED			
			Communica	ation	CAN, RS485, WiF	i/LAN (Optional)	

 \star 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.