



High Voltage Three Phase All-In-One ESS

Features

• 6.0KW



•8.0KW • 10.0KW

Integrated smart EMS support various power applications



•12.0KW

emergency grid power back-up



Up to 20kVA peak off-grid loading capability for 60 seconds



on/off-grid loading under zero injection



Both On & Off-grid ports can be paralleled to support bigger loading(Q2-202⁻









Standard Runnig Modes























Three Phase Connection with Asymmetric Output



Battery High Voltage Max. 750V



Always on UPS



Zero Grid Injection Function



LiFePO4, Superior Safety



Modular Design

Operation Voltage [Vdc]	200~900
Max. Charge/Discharge Current [A]	30
Recommend Charge/Discharge Current [A]	30
Functions	Pre-charge, Over-Less Voltage/
	/Over-Less Temperature Protection,
	Cells Balancing/SOC-SOH calculationetc.
Communication Protocol/Connector Type	CAN/RS485 ModBus, TCP/IP/ RJ45
Power Connection Type	Amphenol MC4
User Interface	LCD Display(Optional, need to be confirmed upon order)
Dimension [W*H*D mm]	557*319*152.6
Weight	11kg
Operating Temperature [C]	-20~55
Ingress Protection	IP21(Optional IP65, need to be confirmed upon order)
Installation Method	Floor or Wall Mounted
Warranty	10 years

Master BMS



Nominal Voltage/Capacity per Module	76.8V/2.3KWH
Expand Capability	Up to 8 Modules series at 614V/18.4KWH
DOD Recommended	90%
Max. Charge/Discharge Current [A]	30A Continual
Recommend Charge/Discharge Current [A]	25A Continual
Communication Protocol/Connector Type	CAN/ RJ45
Power Connection Type	Amphenol MC4
Dimension [W*H*D mm]	557*319*152.6 per module
Weight	28kg
Charge Temperature Range [*C]	0~45
Discharge Temperature Range [°C]	-20~55
Ingress Protection	IP21(Optional IP65, need be confirmed upon order)
Installation Method	Floor or Wall Mounted
Cables Connection Method	Connection from side
Warranty	10 years or 10,000 cycles 90% DOD

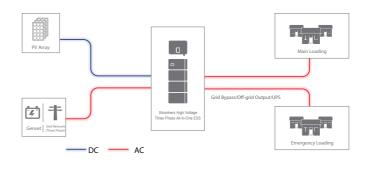
Battery Module



 $[*]Battery \, System \, Configuration \, Options: \, 230V/6.9kWh, \, 307V/9.2kWh, \, 384V/11.5kWh, \, 460V/13.8kWh, \, 537V/16.1kWh, \, 614V/18.4kWh, \,$







Inverter

PV INPUT(DC)	6.0KW	8.0KW	10.0KW	12.0KW
Max. DC Input Power [W]	7,800	10,400	13,000	15,600
Start-up PV Voltage [Vdc]	180	180	180	180
Max. Input DC Voltage [Vdc]	1,000	1,000	1,000	1100
Nominal Input DC Voltage [Vdc]	620	620	620	620
MPPT Voltage Range [Vdc]	200~850	200~850	200~850	200~850
Number of MPP Trackers	2	2	2	2
PV String per MPPT	1/1	1	1	1
Max. PV Input Current [A]	13/13	13/13	13/13	13/13
Max. Short Current [A]	18/18	18/18	18/18	18/18

EFFICIENCY	
PV Max. Efficiency	98.6%
PV Europe Efficiency	97.5%
PV Max. MPPT Efficiency	99.9%
Max. Battery to load Efficiency	98.2%

Battery Voltage Range [Vdc]		180	~750	
Max. Charging/Discharging Current [A]		25	/25	
Inverter Built-in Over-current fuse Capacity [A]		(33	
Battery Ready Optional Function	YES			
AC OUTPUT/INPUT&GRID				
Nominal Output Power [kW]/Max. Output Power [kW]	6/6.6	8/8.8	10/11	12/13.2
Max. Input Apparent Power [kVA]	12*	16*	16.5*	16.5*
Max. Battery Charging Power [kW]	6	8	10	12
Nominal Output Voltage [V]		3/	N/PE, 230(400)	
Nominal Output Frequency [HZ]		50/60Hz	45~55Hz/55~65Hz	
Max. AC Current Output [A]	10	13.3	16.5	20
Output Power Factor	0.8 leading0.8 lagging			
Output THDi (Nominal Output)	<3%	<3%	<3%	<3%
DCI	<0.5%In	<0.5%I	n <0.5%In	<0.5%In

PROTECTION	
PV Input Reverse Polarity Protection	YES
Battery Input Reverse Polarity Protection	YES
Anti-Islanding Protection	YES
Insulation Resistance Detection	YES
Residual Current Monitoring Unit	YES
Output Over Current Protection	YES
Grid Output Short Protection	YES
Output Over Voltage Protection	VES

AC OUTPUT BACK UP WITH BATTERY				
Max. Output Apparent Power [kVA]	6.6	8.8	11	13.2
Peak Output Apparent Power [kVA]	12, 60sec**	16, 60sec**	20, 60sec**	20, 60sec**
Peak Apparent Output Power per Phase [kVA]	2.6 ***	3.3***	4 ***	5***
Nominal Output Voltage [V]	230(400)	230(400)	230(400)	230(400)
Automatic Switch Time [ms]	<10	<10	<10	<10
Nominal Output Frequency [HZ]	50/60	50/60	50/60	50/60
Output THDy (Lipoar Load)	-20/	-20/	-20/	-20/

GENERAL DATA

Operating Temperature Range [C]

operating remperature runge [o]	00 00
Relative Humidity	0~100%
Operating Altitude [m]	4000
Cooling	Fan Free
Noise [dB]	<25
User Interface	LED&APP
Communication with BMS	CAN&RS485
Communication with Meter	RS485
Communication with Portal	Wi-Fi/Ethernet
Weight [kg]	26
Size (W*H*D) [mm]	550*410*175
ounting	Wall Mounted
Protection Degree	IP65
Standby Self-Consumption [W]	<15
Topology	Transformerless

-30~60

Parallel Capability Maximum 10 inverters can be paralleled at On-grid ports, Off-grid ports parallel function to be available Q2-2021

Battery Options(Based on Inverter	Max. 25A Charge&Discharge Capa			
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Voltage (Vdc)	230V	307V	384V	460V	537V	614V
Capacity [kWH]	6.9kWh	9.2kWh	11.5kWh	13.8kWh	16.1kWh	18.4kWh
Max. Discharging Power [kW]	5.7kW	7.6kW	9.6kW	11.5kW	12kW	12kW

 ^{***} Maximum power imported from grid to support back-up loading and charge battery.
 *** Only upon sufficient PV and battery available power.

Peak output apparent of power per phase is the max output apparent power that won't trigger the overload protection.

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