

# BIG HOUSE , BIG POWER

◆ 3.6KW ◆ 5.0KW ◆ 6.0KW

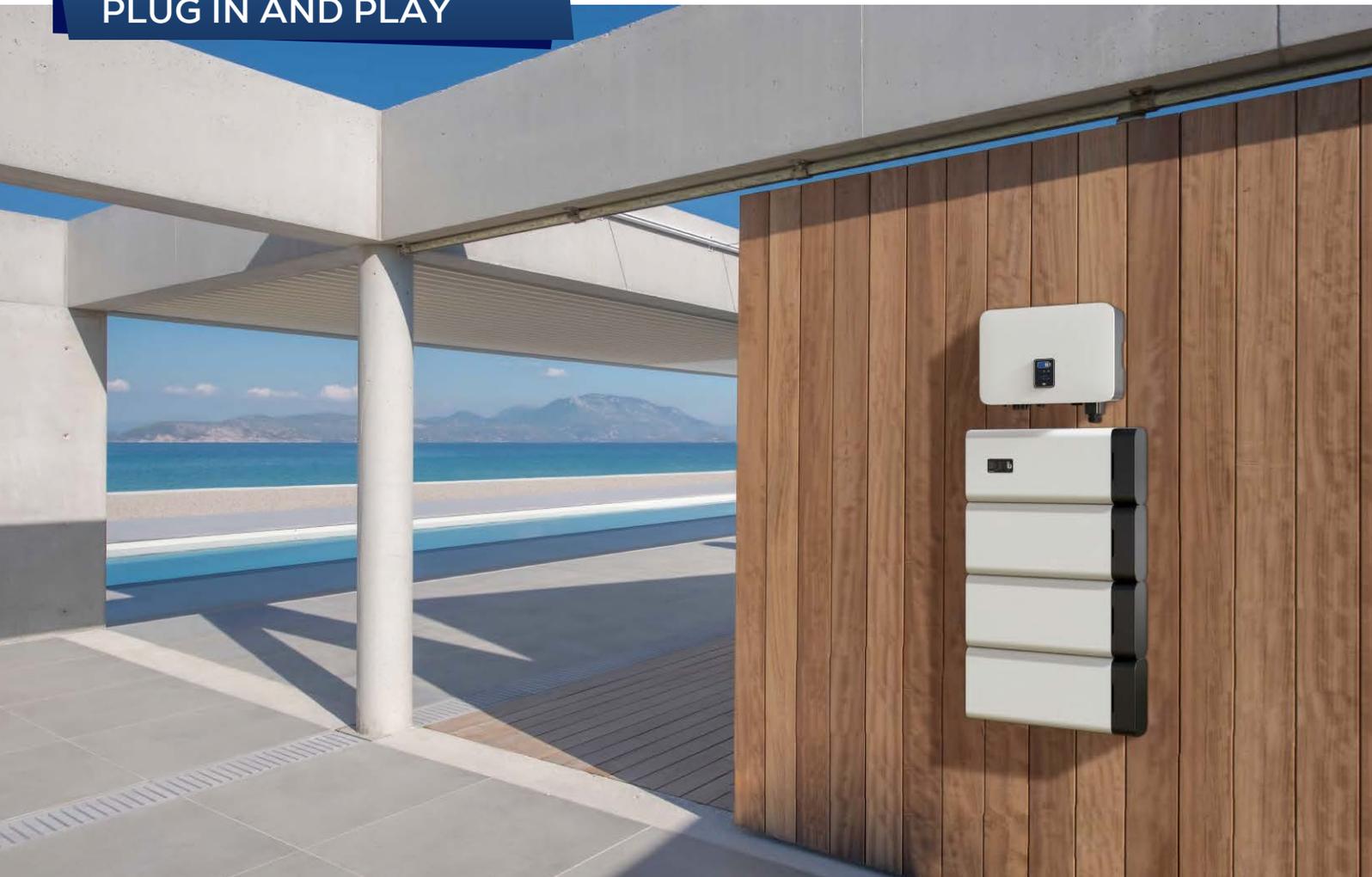
SINGLE PHASE ALL-IN-ONE ESS WITH HV BATTERY

## Features

- ▮ High Voltage Battery Input(80~480V)
- ▮ <10ms UPS level emergency grid back-up
- ▮ Up to 9000VA off-grid peak loading capability
- ▮ Superior system efficiency, 10%~15% higher than 48V storage range
- ▮ Integrated smart EMS support various power applications

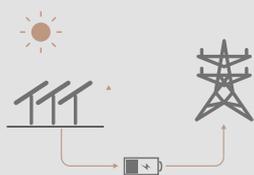


**ALL-IN-ONE  
PLUG IN AND PLAY**

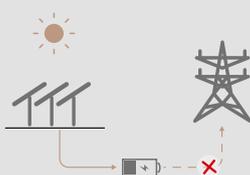


**Typical Applications**

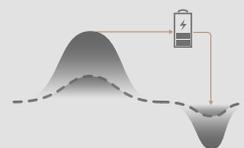
Maximum Solar Self-consumption



Zero-injection



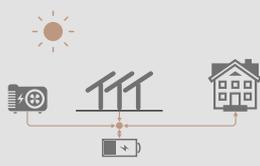
Peak Load Shifting, one key to optimize grid connection capability



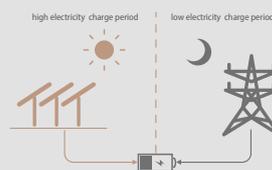
Emergency Power Back-up(UPS Level)



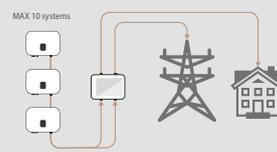
Smart Micro Grid Solution(Off-grid)



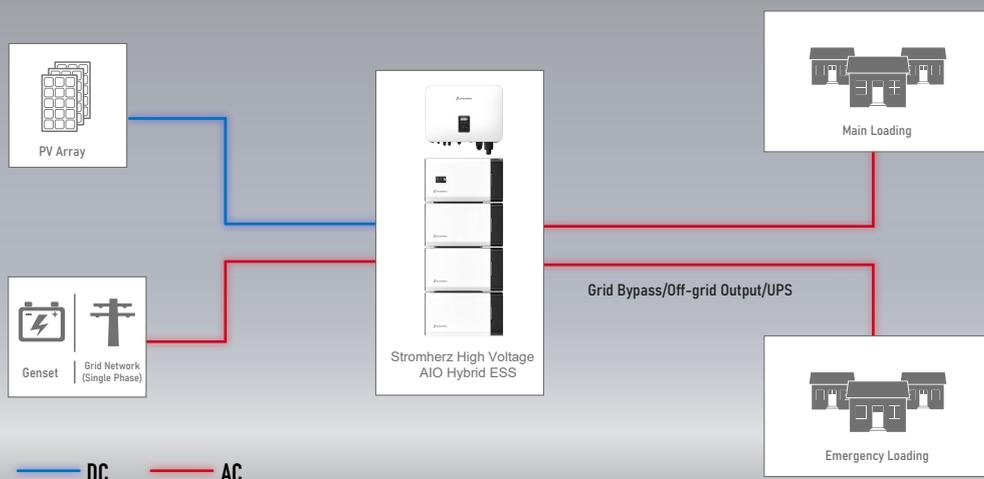
Scheduled Charge-Discharge



Parallel Connection



# Inverter Datasheet



PV INPUT(DC)	S3.6KW	S-5.0KW	S-6.0KW
Max. DC Input Power [W]	4800	6650	8000
Start-up PV Voltage [Vdc]	80	80	80
Max. Input DC Voltage [Vdc]	600	600	600
Nominal Input DC Voltage	360	360	360
[Vdc] MPPT Voltage Range	100~550	100~550	100~550
[Vdc] Number of MPPT	2	2	2
Trackers	1	1	1
PV String per MPPT	12.5/12.5	12.5/12.5	12.5/12.5
Max. PV Input Current [A]	15	15	15
Max. Short Current [A]			

INPUT& OUTPUT DC (BATTERY)	
Battery Voltage Range [Vdc]	80~480
Max. Charging/Discharging Current [A]	35
Inverter Built-in Over-current fuse Capacity [A]	63
Battery Ready Optional Function	YES

AC OUTPUT/INPUT @GRID			
Nominal Apparent Power Output to Grid	3600	5000	6000
[VA] Max. Apparent Power Output to Grid	3600/3960	5000/5500	6000/6600
[VA] Max. Apparent Power from Grid [VA]	7200(Charging 3.6KW 3.6kw back-up by pass)	10000(Charging 5KW 5kw back-up by pass)	12000(Charging 6KW 6kw back-up by pass)
Nominal Output Voltage [V]/Frequency	230V, 50/60	230V, 50/60	230V, 50/60
[HZ] Max. AC Current Output to Grid [A]	16/18	21.7/24	26.1/28.7
Max. AC Current from Grid [A]	32	43.4	52.2
Output Power Factor	~1(Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%

AC OUTPUT @BACK UP WITH BATTERY			
Max. Output Apparent Power [VA]	3600	5000	6000
Peak Output Apparent Power [VA]	4700 Continual 5400, 60sec	6500 Continual 7500, 60sec	8000 Continual 9000, 60sec
Max. Output Current [A]	15.7	21.7	26.1
Nominal Output Voltage [V]	230V	230V	230V
Automatic Switch Time [ms]	<10	<10	<10
Nominal Output Frequency	50/60	50/60	50/60
[HZ] Output THDv (@Linear Load)	<3%	<3%	<3%

Battery Options				
Voltage (Vdc)	153V	230V	307V	384V
Capacity [kWh]	7.6kWh	11.5kWh	15.3kWh	19.2kWh
Discharging Power [kW]	5.3kW	8.0kW	10.7kW	13.4kW

EFFICIENCY	
PV Max. Efficiency	98.1%
PV Europe Efficiency	97.5%
PV Max. MPPT Efficiency	99.9%
Battery Charge Efficiency[Inverter]	97.8%
Battery Discharge Efficiency[Inverter]	97.5%

PROTECTION	
PV Input Reverse Polarity Protection	YES
Battery Input Reverse Polarity	YES
Protection 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	YES

GENERAL DATA	
Operating Temperature Range [ C ]	-30~60
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]	24
Size (W*H*D) [mm]	550*410*175
Mounting	Wall Mounted
Protection Degree	IP65
Standby Self-Consumption [W]	<15
Topology	Transformerless



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## Battery Datasheet

Modular Design



LiFePO4, Superior Safety



High Voltage Battery, Max. 480V



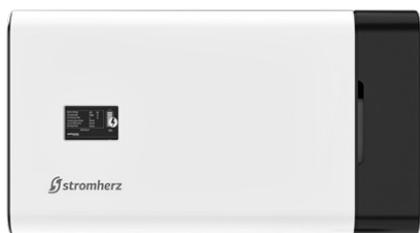
Always on UPS, <10ms



Zero grid injection function

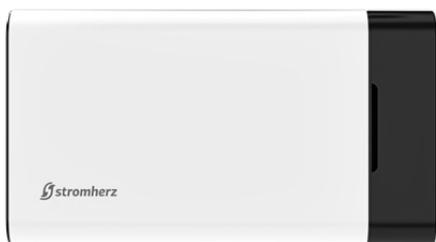


Parallel capability on both off-grid and on-grid ports (Max. 10 systems)



### Master BMS

Operation Voltage [Vdc]	100~500
Max. Charge/Discharge Current [A]	50
Recommend Charge/Discharge Current [A] Functions	35 Pre-charge, Over-Less Voltage/ /Over-Less Temperature Protection, Cells Balancing/SOC-SOH calculation etc.
Communication Protocol/Connector	CAN/RS485 ModBus, TCP/IP/ RJ45
Type Power Connection Type	Amphenol MC4
User Interface	LCD Display (Optional, need to confirm upon order)
Dimension [W*H*D mm]	557*319*152.6
Weight	10kg
Operating Temperature [C]	-20~55
Ingress Protection	IP21 (Optional IP65, need to confirm upon order)
Installation Method	Stackable or Wall Mounted
Warranty	10 years



### Battery Module

Nominal Voltage/Capacity per Module	76.8V/3.84KWH
Expand Capability	Up to 5 Modules series at
DOD Recommended	90%/19.2KWH
Max. Charge/Discharge Current [A]	50A Continual
Recommend Charge/Discharge Current [A]	35A Continual
[A] Communication Protocol/Connector	CAN/ RJ45
Type Power Connection Type	Amphenol MC4
Dimension [W*H*D mm]	680*319*152.6 per module
Weight	30kg
Charge Temperature Range [C]	0~45
Discharge Temperature Range [C]	-20~55
Ingress Protection	IP21 (Optional IP65, need to confirm before order)
Installation Method	Stackable or Wall Mounted
Cables Connection Method	Connection from side
Warranty	10 years or 10,000 cycles @90% DOD

\*Battery System Configuration Options: 153V/7.68kWh, 230V/11.5kWh, 307V/15.3kWh, 384V/19.2kWh

\*Stromherz reserves the right to modify the technical datasheet and appearance of the product in the catalogue without prior advice to the users