





# **Simpler**

- -- Quick and easy single person installation
- -- Interconnects with standard household



# Safer

- -- No high voltage for battery installation
- -- Superior LiFePO4 Safety Performance
- -- Whole system safety tested and certified by Dekra Germany



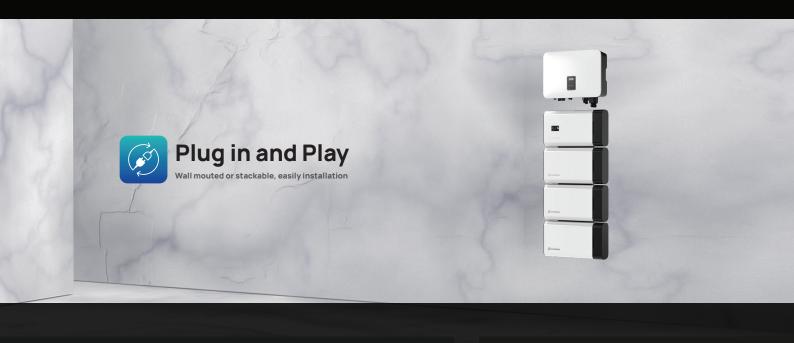
# **Great reliability**

- -- Superior LiFePO4 technology with 10,000 cycles at 90% DOD
- -- 10 years standard warranty
- -- Modular design promotes redundancy





# **G**stromherz









# **Standard Runnig Modes**



Maximum Solar Self-consumption



Emergency Power Back-up(UPS Level)



Smart Micro Grid Solution (Off-grid)



Parallel Connection



Zero-injection



Peak Valley Mode



Peak Load Shifting, one key to optimize grid connection capability





Single Phase Connection



Battery High Voltage Max. 750V



Always on UPS <10ms



Modular Design





Zero Grid Injection Function



LiFePO4, Superior Safety



# **Master BMS**

Operation Voltage [Vdc]	100~500
Max. Charge/Discharge Current [A]	50
Recommend Charge/Discharge Current [A]	35
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 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



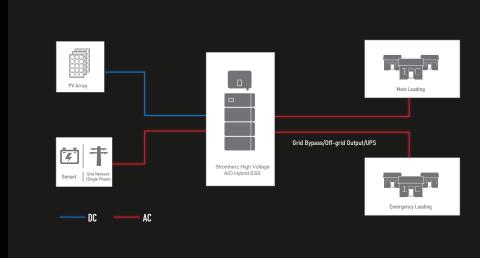
**S**stromherz

Dattery Modute	
Nominal Voltage/Capacity per Module	76.8V/3.84KWH
Expand Capability	Up to 5 Modules series at 384V/19.2KWH
DOD Recommended	90%
Max. Charge/Discharge Current [A]	50A Continual
Recommend Charge/Discharge Current [A]	35A Continual
Communication Protocol/Connector Type	CAN/ RJ45
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

<sup>\*</sup>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 apperance of the product in the cataloge without prior advice to the users







### Inverter

PV INPUT(DC)	STS-3.6KW	STS-5.0KW	STS-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 [Vdc]	360	360	360
MPPT Voltage Range [Vdc]	100~550	100~550	100~550
Number of MPP Trackers	2	2	2
PV String per MPPT	1	1	1
Max. PV Input Current [A]	12.5/12.5	12.5/12.5	12.5/12.5
Max. Short Current [A]	15	15	15

# 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 [VA]	3600	5000	6000	
Max. Apparent Power Output to Grid [VA]	3600/3960	5000/5500	6000/6600	
Max. Apparent Power from Grid [VA]	7200(Charging 3.6KW	10000(Charging 5KW	12000(Charging 6KW	
	3.6kw back-up by pass)	5kw back-up by pass)	6kw back-up by pass)	
Nominal Output Voltage [V]/Frequency [HZ]	230V, 50/60	230V, 50/60	230V, 50/60	
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

3600	5000	6000
4700 Continual	6500 Continual	8000 Continual
5400, 60sec	7500, 60sec	9000, 60sec
15.7	21.7	26.1
230V	230V	230V
<10	<10	<10
50/60	50/60	50/60
<3%	<3%	<3%
	4700 Continual 5400, 60sec 15.7 230V <10 50/60	4700 Continual         6500 Continual           5400, 60sec         7500, 60sec           15.7         21.7           230V         230V           <10

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 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	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