

# ESS Battery

## Modular and future proof energy storage system

- Upgradable system to allow expansion over time
- Adaptable to power capacity needs
- Safe and long lasting LiFePO4 technology
- Ready\* for back-up and off-grid applications



## ESS System order guide

ESS System**	ESS Power Case <i>PF10004</i>	ESO Module <i>PE00751</i>	ESS Battery Main Controller <i>PB10002</i>	ESS Battery Module 3.55 kWh <i>PB10003</i>	ESS Battery Bracket <i>PB10004</i>
ESS 7/2	1	1	1	2	1
ESS 7/4	1	2	1	2	1
ESS 10/3	1	1	1	3	1
ESS 10/6	1	2	1	3	1
ESS 14/4	1	1	1	4	1
ESS 14/8	1	2	1	4	1

\*Battery requires backup / off-grid technology installed within the EnergyHub system.

\*\*System configuration name, for system performance see datasheet of ESS Battery and ESO Module.

## ESS Battery

Product data	ESS Battery		
Module Quantity [pcs]	2	3	4
Rated Capacity [kWh]	7.1	10.6	14.2
Useable Capacity [kWh]	6.3	9.5	12.7
Battery Stack Voltage [Vdc]	192	288	384
Charge Upper-Voltage [Vdc]	216	324	432
Charge Current [Amps, Normal]	18.5		
Charge Current [Amps, Max.@15s]	40		
Discharge Lower-Voltage [Vdc]	174	261	348
Discharge Current [Amps, Normal]	18.5		
Discharge Current [Amps, Max.@15s]	40		
Efficiency [%]	96		
Depth of Discharge [%]	90		
Dimension [WxDxH, mm]	450x296x822	450x296x1118	450x296x1414
Communication	Modbus RTU \ CAN		
Protection Class	IP55		
Weight [kg]	82	117	152
Warranty [Years]	7		
Operation Cycle Life	>5000		
Operation Temperature [°C]	0 ~ 50		
Storage Temperature [°C]	-20 ~ 60		
Humidity [%]	5~95		
Product Certificate	VDE2510-50, IEC62619, IEC62477-1, IEC62040-1, CEC, CE		
Transport Certificate	UN38.3		
1. Battery Controller Dimensions [WxDxH, mm]	450x296x190		
2. Battery Module Dimensions [WxDxH, mm]	450x296x296		
3. Battery bottom base Dimensions [WxDxH, mm]	450x296x40		

## ESS Battery Module 3.55 kWh

Product data	ESS Battery Module 3.55 kWh
Cell Technology	Li-ion (LFP)
Rated Capacity [kWh]	3.552
Voltage [Vdc]	96
Capacity [Ah]	37
Dimension [WxDxH, mm]	450x296x296
Weight [kg]	35
Warranty [Years]	7
Operation Cycle Life	>5000
Operation Temperature [°C]	0 ~ 50
Storage Temperature [°C]	-20 ~ 60
Transport Certificate	UN38.3

*ESS Battery Main Controller*



*ESS Battery Module 3.55kWh*



*ESS Battery Bracket*



Product name	Part number	E-number
ESS Battery Main Controller	PB10002	27 402 60
ESS Battery Module 3.55 kWh	PB10003	27 402 61
ESS Battery Bracket	PB10004	27 400 90

