

C&I

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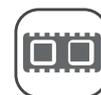
Energy Storage System 25~50kWh/100kWh Hybrid



Scalable up to 500kWh
10 (Parallel) on-grid



Solar panels can be
connected to it



Quality LFP cells



Peak shaving



Spot market and
imbalance trading ready



Energy saving

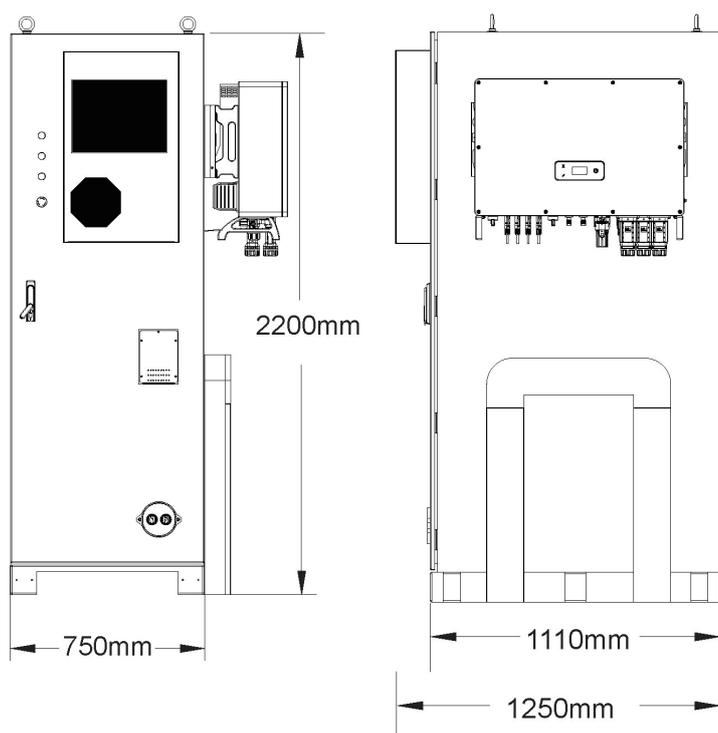
- Pre-assembled design, easy to install
- Higher system efficiency
- Higher system efficiency
- High reliability key devices approved by TUV and IEC
- Climate controlled battery system
- Multi level battery protection
- Fire suppression system build in
- Supports diesel generator charging
- water sensor, pressure relief valves and storz connection build in

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Model	25kW/100kWh	29,9kW/100kWh	30kW/100kWh	40kW/100kWh	50kW/100kWh
PV input					
Max. input power (kW)	40	47,84	48	64	80
Start-up voltage (V)	210				
Max. DC input voltage (V)	1000V, (max input is 950V, otherwise the inverter will wait till it lowers to 950V)				
Rated DC input voltage (V)	620				
MPPT voltage range (V)	200-850				
Number of MPP trackers	4				
Number of DC inputs per MPPT	2				
Max. input Current (A)	20/20				
Max. short-circuit current (A)	25/25				
Battery specifications					
Nominal capacity (kWh)	100				
Usable capacity (kWh)	90				
Nominal battery system voltage (V)	358.4				
Battery system working voltage range(V DC)	313.6~397.6				
Nominal battery current (A)	140				
Output (grid) + output (back-up)					
Rated + max output power (kW)	25	29.9	30	40	50
Max. apparent power (kVA)	25	29.9	30	40	50
Max. apparent power (VA)	16,500	22,000	27,500	33,000	36,300
AC output rated current (A)	37.9	45.3	45.5	60.6	75.8
Max. output current (A)	37.9	45.3	45.5	60.6	75.8
Rated output voltage (V)	3L / N / PE, 230 (400)				
Rated AC frequency (Hz)	50/60				
Power factor	0.8 leading ...0.8 lagging				
Max. total harmonic distortion	<3% @Rated output power/linear load				
On/off-grid switching time (ms)	10				
Generator input					
Max. input apparent power (kVA)	30	36	36	48	60
Max. charging power of the battery (kW)	25	29.9	30	40	50
Max. input current (A)	45.5	54.5	54.5	72.7	90.9
Compliance					
IEC62109, IEC62116, VDE4105, VDE0126, AS4777, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, C10/11, EN61000, NRS097-2-1, IEC/EN 62477-1, TOR Erzeuger Typ A:2022-04, NRS-097-2-1, NT-631, 2016/631 EU (NC Rfg)					

① 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.



Protection	
DC Reverse Polarity Protection	Integrated
Battery input reverse connection protection	Integrated
Insulation Resistance Protection	Integrated
DC Switch	Optional
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Anti-islanding protection	Frequency shift, Integrated
AC Over-voltage Protection	Integrated
overload protection	Integrated
AC Short-circuit Protection	Integrated
General Data	
Dimensions (mm)	175W*125D*220H
Weight (kg)	<1300
Protection Degree	IP66 (inverter), IP54 (cabinet)
Anti-corrosion Level	C3
Topology	Transformer less
Discharging temperature range (°C)	-30~60
Relative Humidity (%)	5~95 (non-condensing)
Operating Altitude (m)	derating@ > 3000
Max. Connection Number	10 on-grid, 4 if as back-up
Cooling	Air cooled
Noise Level (dB)	<65
Display	OLED & LED
Communication	CAN, RS485, WiFi/LAN (Optional)