



# Stackable Low-voltage Single-phase PV&ESS All-in-one Cabinet



◀  **Energy Controller**  
3.0~8.0kW Single-phase

◀  **Stackable ESS Battery**  
5.12kWh Low-voltage  
2~4 Battery Packs  
10.24~20.48kWh

 **10** minutes  
Installation

 **ms** level  
Energy storage switch

 **4-in-one**  
PV/EMS/PCS/Battery

 **1-stop**  
Smart optimization of power  
consumption strategy

## Technical Parameters

### Stackable Low-voltage Single-phase PV&ESS All-in-one Cabinet

Product image			
Quantity of Battery	2	3	4
Rated Capacity [kWh]	10.24	15.36	20.48
Nominal capacity[V]	51.2	51.2	51.2
Dimension[W*D*H mm]	655*200*1465	655*200*1780	655*200*2095
Weight[KG]	140.3	192	243.7
Operating temperature[°C]	Charge: -10~ +55 / Discharge: -20 ~ +60		
Storage temperature[°C]	≤35°C (≤30day,20~40% SOC)		
Highest operation altitude[m]	2000		
Ingress protection level	IP65		

### 5.12kWh Stackable energy storage battery Low-voltage

<b>Battery parameters</b>	
Nominal capacity[V]	51.2
Standard charge/discharge current[A]	100
Battery type	LFP (LiFePO <sub>4</sub> )
<b>Certification situation</b>	
Certificate	CE 62619,EMC、UN38.3、MSDS

### Energy controller 3.0-8.0kW Single phase

Power energy controller	3.0SP	3.6SP	4.0SP	4.6SP	5.0SP	6.0SP
<b>PV input parameters</b>						
Suggest Max. input power [kW]	6.6	7.0	7.0	8.0	8.0	8.0
DC input voltage[V]	100-550					
Rate DC input voltage [V]	360					
MPPT operating voltage range[V]	120-500					
MPPT Quantity	2					
Max. input current [A]	13					
Max. short-circuit current [A]	20					
<b>AC parameters</b>						
Rate output power [kW]	3.00	3.60	4.00	4.6	5.00	6.00
Max. output apparent power [kVA]	7.20			8.00		
Rate voltage [V]	230					
Grid frequency [Hz]	50/60					
Rate output current[A]	13	15.6	17.4	20	21.7	26
Max. output current [A]	15.00	18.00	21.00	25.00	28.70	36.30
Off-grid rated output power [kW]	3.00	3.60	4.00	4.60	5.00	6.00
Off-grid max. output apparent power [kVA]	3.00	3.60	4.00	4.00	4.00	4.00
UPS switch time	<20					
<b>Efficiency parameters</b>						
Max. PV conversion efficiency	99.0%					
Europe efficiency	97.0%					
<b>Communications</b>						
communication protocol	CAN, RS485, WiFi/LAN ( optional)					
<b>Certification situation</b>						
Certificate	IEC 62109-1/2、IEC 62040、IEC 62477、EN 61000、EN 62920、IEC 60068、UNE 217002、CEI-021、AS4777.2、EN50549、RD1699、RD413、RD647、UNE 217001、NTS TYPE A、CE10-21、CE10-16、VDE-AR-N 4105、UTE C15-712-1/XP C15-712-3/VFR2019、G98、G99					

Product continues to iterate, specifications may be updated without prior notice.

