



**P100**

A next-generation energy storage system solution with a fully-integrated inverter/charger and boasting a range of advanced features.

5kW ...>>> 30kW  
 10kWh ...>>> 30kWh  
 Off-Grid



Advanced System Monitoring

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# P100

**ENERGY STORAGE SYSTEM**



IP66 RATED



EPS FUNCTION



-20°C ~ 55°C



95% DOD



**FULLY INTEGRATED STORAGE SYSTEM**  
 Seamlessly integrated, truly all-in-one solution.



**LESS IS MORE**  
 Sleek, minimalist design for effortless one-step installation.



**DOUBLE OFF-GRID BACKUP CAPABILITY**  
 The system experienced a 200% overload for 10 seconds.



**4MS**  
 Support 4ms parallel off-grid switching.

# TECHNICAL DATA

MODEL	P100-5-H	P100-6-H	P100-7-H	P100-8-H	P100-9-H	P100-10-H	
<b>PV INPUT (ONLY FOR HYBRID)</b>							
Max. PV Array Power [Wp]	16000	16000	20000	20000	20000	20000	
Max. Input Power [W]	15000	16000	17000	18000	19000	20000	
Max. MPPT Input Power [W]	8000/8000	8000/8000	8000/8000/8000	8000/8000/8000	8000/8000/8000	8000/8000/8000	
Max. Input Voltage [V]				600			
Start-up Input Voltage [V]				75			
Rated Input Voltage [V]				360			
MPPT Operating Voltage Range [V]				80 ~ 550			
Max. Input Current [A]	20/20	20/20	20/20/20	20/20/20	20/20/20	20/20/20	
Max. Short-circuit Current [A]	25/25	25/25	25/25/25	25/25/25	25/25/25	25/25/25	
No. of MPP Trackers	2	2	3	3	3	3	
Strings per MPP Tracker				1			
<b>BATTERY CONNECTION</b>							
Battery Type				LFP (LiFePO <sub>4</sub> )			
Battery Energy [kWh]				10.24			
Depth of Discharge [%]				95			
Cycle Life				6000			
<b>AC INPUT AND OUTPUT (GRID)</b>							
Output	Rated Power [W]	5000	6000	7000	8000	9000	10000
	Rated Apparent Power [VA]	5000	6000	7000	8000	9000	10000
	Max. Apparent Power [VA]	5500	6600	7700	8800	9900	11000
	Rated Output Current (Per Phase) [A]	22.7	27.3	31.8	36.4	40.9	45.5
	Max. AC Current (Per Phase) [A]	25.0	30.0	35.0	40.0	45.0	50.0
Input	THDi [%]				<3 @rated power		
	Max. Apparent Power [VA]	6000	7200	8400	9600	10800	12000
Output & Input	Max. Input Current [A] (Per Phase)	27.3	32.7	38.2	43.6	49.1	54.5
	Nominal Voltage [V]				220/230/240, L/N/PE		
	Nominal Frequency [Hz]				50/60, ±5		
	Power Factor				1(Adjustable from 0.8 leading to 0.8 lagging)		
	Inrush Current [A]				15 @0.5ms		
<b>EPS OUTPUT</b>							
Max. Apparent Power [VA]	5000	6000	7000	8000	9000	10000	
Peak Apparent Power [VA]	6000@60s	7200@60s	8400@60s	9600@60s	10800@60s	12000@60s	
	7500@30s	9000@30s	10500@30s	12000@30s	13500@30s	15000@30s	
	10000@10s	12000@10s	14000@10s	16000@10s	18000@10s	20000@10s	
Nominal Voltage [V]				220/230/240			
Nominal Frequency [Hz]				50/60			
Max. Output Current (Per Phase) [A]	22.7@220V	27.3@220V	31.8@220V	36.4@220V	40.9@220V	45.5@220V	
Power Factor				1 (Adjustable)			
Switch Time [ms]				<4			
THDV [%]				<3@Linear Load			
Parallel Operation				Yes @max 3PCS			
<b>EFFICIENCY</b>							
Max. Conversion Efficiency [%]				97.60			
European Efficiency [%]				97.20			
Max. Battery Charge Efficiency (PV To BAT) @full Load [%]				97.30			
Max. Battery Charge/discharge Efficiency (BAT To AC) @full Load [%]				96.40			
<b>PROTECTION</b>							
Insulation Monitoring				YES			
Residual Current Monitoring				YES			
DC Reverse Polarity Protection				YES			
Anti-islanding Protection				YES			
AC Short-circuit Protection				YES			
AC Overcurrent/Overvoltage Protection				YES			
DC Switch				YES			
Overvoltage Category				DC: Type II /AC: Type II			
AFCI Protection				YES			
<b>GENERAL DATA</b>							
Dimensions (W*H*D) [mm]				584*1009*197			
Weight [kg]				113			
Installation				Floor-mounted/Wall-mounted			
Cooling Method				Intelligent air cooling			
Noise Emission [dB]				<45, Average			
Max. Operating Altitude [m]				<4000@Derating exceeding 2000m			
Operating Temperature Range [°C]				-20 ~ 55			
Humidity (No Condensation) [%]				0 ~ 100			
Ingress Protection				IP66			
Standby Consumption [W]				<20			
Monitoring Module				WiFi, LAN, 4G			
Communication Interface				Ethernet, EMS(RS 485), Meter, WiLAN(WiFi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, BMS(CAN), SG Ready			
Display				LED, LCD, APP, Website			
Supports Dual EPS Expansion				YES			
<b>STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)</b>							
Safety				EN/IEC 62109-1, EN/IEC 62109-2, EN/IEC62477-1,EN/IEC 62040(AU)			
EMC				EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, IEC 62920:2017			
RED				EN 50665:2017, ENIEC 62311:2020, EN 301 489-1 V2.2.3 (2019-11), EN 301 489-17 V3.2.4 (2020-09), EN 300 328 V2.2.2(2019-07), EN 55032:2015+A11:2020+A1:2020, EN 55035:2017+A11:2020			
Grid Regulation				G99, CEI 0-21, AS/NZS 4777.2:2020, NRS 097-2-1, IEC 61727, EN 50549-1, P140/PS15			
Battery Regulation				IEC62619:2022			
Transportation				UN 38.3			
Environment				ROHS, REACH, WEEE			