

avocado



IP66 RATED



EPS FUNCTION



-20°C ~ 55°C



95% DOD



Powered by Fox ESS
DATASHEET

P100

A next-generation all-in-one energy storage solution with a fully integrated inverter and battery, offering a range of advanced features.

5kW ...>> 30kW
10kWh ...>> 120kWh
Off-Grid



Advanced System Monitoring
with FoxCloud 2.0



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P100



ENERGY STORAGE SYSTEM



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.



DC EXPANSION AND AC PARALLEL OPERATION AVAILABLE
Support 3 ET10 battery expansion units and 3 AC parallel units.



4MS
Support 4ms parallel off-grid switching.

TECHNICAL SPECIFICATIONS

MODEL		P100E-5-H	P100E-6-H	P100E-8-H	P100E-10-H
PV INPUT (ONLY FOR HYBRID)					
Max. PV Array Power [Wp]		16000	16000	20000	20000
Max. Input Power [W]		15000	16000	18000	20000
Max. MPPT Input Power [W]		8000/8000	8000/8000	8000/8000/8000	8000/8000/8000
Max. Input Voltage [V]				600 [1]	
Start-up Input Voltage [V]				80	
Nominal Voltage [V]				360	
MPPT Operating Voltage Range [V]				80 ~ 550	
Max. Input Current [A]		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
No. of MPP Trackers		2	2	3	3
Strings per MPP Tracker		1+1	1+1	1+1+1	1+1+1
BATTERY CONNECTION					
Battery Type				LFP (LiFePO ₄)	
Battery Energy [kWh]				10.24	
Max. Charge Power [W]				10000	
Depth of Discharge [%]				95	
DC Expansion				Yes, max. 3*ET10 batteries	
AC INPUT AND OUTPUT (GRID)					
Output	Rated Power [W]	5000	6000	8000	10000
	Rated Apparent Power [VA]	5000	6000	8000	10000
	Max. Apparent Power [VA]	5500	6600	8800	11000
	Rated Current (per phase) [A]	22.7/21.7/20.8	27.3/26.1/25.0	36.4/34.8/33.3	45.5/43.5/41.7
	Max. Current (per phase) [A]	25.0/23.9/22.9	30.0/28.7/27.5	40.0/38.3/36.7	50.0/47.8/45.8
Input	THDi [%]			<3 @rated power	
	Max. Apparent Power [VA]	8800	11000	14500 [2]	14500 [2]
	Max. Current [A] (per phase)	40.0	50.0	63.0 [2]	63.0 [2]
Output & Input	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]				3.2 @ 1ms	
EPS OUTPUT					
Max. Apparent Power [VA]		5000	6000	8000	10000
Load Start Capability [A]				100 @2s	
Nominal Voltage [V]				220/230/240	
Nominal Frequency [Hz]				50/60, ±5	
Max. Output Current (per phase) [A]		22.7/21.7/20.8	27.3/26.1/25.0	36.4/34.8/33.3	45.5/43.5/41.7
Power Factor			1 (Adjustable from 0.8 leading to 0.8 lagging)		
Switch Time [ms]				<4	
THDV [%]				<3@Linear Load	
Parallel Operation				Yes @max 3PCS	
EFFICIENCY					
Max. Conversion Efficiency [%]				97.62	
European Efficiency [%]				97.20	
Max. Battery Charge Efficiency (PV To BAT) @full Load [%]				97.33	
Max. Battery Charge/Discharge Efficiency (BAT To AC) @full Load [%]				96.40	
PROTECTION					
PV Reverse Polarity Protection				YES	
Anti-Islanding Protection				YES	
Output Short Protection				YES	
Leakage Current Protection				YES	
Insulation Resistance Detection				YES	
Overcurrent Protection				YES	
Overtemperature Protection				YES	
Earth Fault				YES	
DC/AC Surge Protection				DC: Type II /AC: Type II	
AFCI Protection				YES	
DC Switch				YES	
GENERAL DATA					
Dimensions (W*H*D) [mm]				584*1009*197	
Weight [kg]				108	
Installation				Floor-mounted/Wall-mounted	
Cooling Method				Intelligent air cooling	
Operating Temperature (Limited Performance without Warm Up)				-20 ~ 55	
Operating Temperature (Full Performance with Warm Up)				-25 ~ 55	
Storage Temperature [°C]				0 ~ 35	
Humidity (No Condensation) [%]				0 ~ 100	
Altitude [m]				<4000@Derating exceeding 2000	
Ingress Protection				IP66 (For Outdoor Use)	
Standby Consumption [W]				<20	
Noise Emission [dB]				<45, Average [3]	
Inverter Topology				Non-Isolated	
Communication Interface		Ethernet, EMS, Meter, WiLAN(WiFi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, SG Ready, Dry Contactor			
Display				LED, LCD, APP, Website	
Export Limit Control				YES	
Button				Capacitive Touch Sensor * 1	
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)					
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+A12:2020, EN 55035:2017+A11:2020			
Grid Regulation		G98, CEI 0-21, AS/NZS 4777.2:2020, NRS 097-2-1, IEC 61727, EN 50549-1, P140/P515			
Battery Regulation		IEC62619:2022			
Transportation		UN 38.3			

[1] Voltages above 600V may damage the inverter.

[2] Can be configured via the app or web portal.

[3] Noise data are measured in decibels with the decorative cover installed.

TECHNICAL SPECIFICATIONS

SYSTEM NAME		ET10
ELECTRICAL CHARACTERISTICS		
Battery Type	LFP (LiFePO ₄)	
Nominal Energy [kWh]	10.24	
Nominal Voltage [V]	204.8	
Operating Voltage [V]	185.6 ~ 233.6	
Max.Charge/Discharge Current [A] *1	50	
Recommend Charge Current [A]	25	
Peak Discharge Current [A]	65 @60S	
Peak Charge Current [A]	65 @60S	
Battery Pack Round-Trip Efficiency [%] *2	≥95	
Depth of Discharge [%]	95	
Communication	CAN	
Display	LED*5	
Scalability	Max. 4 Units in Parallel	
OPERATING CONDITIONS		
Installation Location	Outdoor/ Indoor	
Operating Temperature [°C]	-20 ~ 55	
Operating Temperature [°C] (warm up function on, optional)	-25 ~ 55	
Storage Temperature [°C]	0 ~ 35	
Cooling Method	Natural Convection	
Humidity [%]	5 ~ 95 (No Condensation)	
Altitude [m]	Max. 4,000	
PROTECTION		
Fire Protection Function	YES	
MECHANICAL CHARACTERISTICS		
Dimensions (W*H*D) [mm]	625*770*160	
Weight [kg]	100	
CERTIFICATES		
Safety	IEC62619	
EMC	EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, EN IEC 61000-6-3:2021, IEC 62920:2017	
Transportation	UN38.3	
Ingress Protection	IP66	
Protective Class	Class I	

*1, The current is affected by temperature, cell voltage and SOC.

*2 @25°C, 0.2C charging/discharging.