

# Hybrid PH Series



3.0K / 3.6K / 4.0K / 4.6K / 5.0K / 6.0K

## Key Features

- Up to 150% PV oversized and 110-150% overload output
- Maximum 14A DC input current, support for high power solar panel
- Tough screen is an option
- Intelligent control of different load to increase the safety level. (Support on/off-grid automatic switching function to ensure uninterrupted power when important loads are off-grid)
- Support flexible access of diesel generator
- Time of use(TOU) charging and discharging mode can well adapt to the TOU electricity price for cost saving
- Support countercurrent prevention control
- Support parallel connection. Be mutual redundant to improve system reliability, stability and flexibility.
- Battery self-adaptation. No manual setting required
- Support intelligent EMS management function

## Hybrid 3.0 – 6.0K PH Series Product Specification

ESS 1P SPEC	3K	3.6K	4K	4.6K	5K	6K
<b>Solar Input(PV)</b>						
Max. DC Input Power(kW)	4.6	4.6	6	6	7	7
Max. DC Input Voltage(V)	550					
MPPT Voltage Range(V)	125-500					
Max.Input Current Of Single MPPT(A)	14					
MPPT Tracker/Strings	2/1					
<b>Battery Output</b>						
Battery Type	Lithium /Lead-acid					
Battery Voltage Range(V)	40-58					
Max. Charging Voltage(V)	58					
Max. Charge/Discharge Current(A)	95/62.2	95/75	95/83.3	95/95.8	95/104.2	95/110
Communication Interface	CAN/RS485					
<b>AC Output</b>						
Nominal AC Output Power(kVA)	3	3.68	4	4.6	5	6
Max. AC Output Current(A)	13	16	17.4	20	21.7	26
Grid Voltage/Range(V)	230/176-270					
Frequency (Hz)	50/60					

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## Hybrid 3.0 – 6.0K PH Series Product Specification

ESS 1P SPEC	3K	3.6K	4K	4.6K	5K	6K
Power Factor	0.8Lagging-0.8Leading					
THDI	<3%					
AC Output Topology	L+N+PE					
<b>EPS Output</b>						
Nominal Power (kVA)	3	3.68	4	4.6	5	6
Nominal Output Voltage(V)	230					
Nominal Output Current(A)	13	16	17.4	20	21.7	26
Nominal Frequency (Hz)	50/60					
Automatic Switching Time (ms)	<20					
THDV	<2%					
Overload Capacity	110%, 30S/120%, 10S/150%, 0.02S					
<b>General Data</b>						
Battery Chage/Dischage Efficiency	95.00%					
DC Max. Efficiency	97.60%					
Europe Efficiency	97.00%					
MPPT Efficiency	99.90%					
Ingress Protection	IP65					
Noise Emission (dB)	<35					
Operation Temperature	- 25°C ~ 60°C					
Cooling	Natural					
Relative Humidity	0 ~95% (Non-Condensing)					
Altitude	2,000m (>2,000 Derating)					
Dimensions W*D*H (mm)	550*200*515					
Weight (kg)	25					
Isolation Transformer	No					
Self-Consumption(W)	<3					
<b>Display And Communication</b>						
Display	LCD					
Interface:RS485/Wifi/4G/CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes					
Safety Standard	IEC/EN62109-1/-2, IEC/EN62477-1					
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3					
Grid certification	EN50549/ IEC 4105/0124/ CEI 0-21/G98/G99					

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