

# D8.0HS/D12.0HS

D8.0HS/D12.0HS is an inverter designed for hybrid power systems, with 4-channel MPPT input and high efficiency of PV conversion. It also supports 150% PV overload, and a UPS switching time  $\leq 10\text{ms}$ , to protect uninterrupted home power.



## 4 MPPT

60-550V wide MPPT voltage range, 150% PV overload



## No Black Out

UPS $\leq 10\text{ms}$ , Ensuring the stability of household electricity consumption



## Ultra Safe

DC&AC side secondary lightning protection, built-in AFCI, supports DC Arc detection



## IP65 Protection

Fearless of outdoor installation, strong environmental adaptability



## Generator Connectivity

Extreme backup capability, powers loads and charges the battery



## Intelligent O&M

Real-time system monitoring and OTA updates

Model	D8.OHS	D12.OHS
<b>Battery Input Data</b>		
Battery Type		LiFePO <sub>4</sub>
Battery Voltage Range (V)		80~490
Max.Charge/Discharge Current (A)		40/40
Max.Charge/Discharge Power (W)	8800	13200
<b>PV String Input Data</b>		
Max.PV Input Power (W)	12000	18000
Max.PV Input Voltage (V)		600
MPPT Range (V)		60~550
SPS Start-up Voltage (V)		60
MPPT Range For Nominal Power (V)	200~500	200~500
NominalPVInputVoltage (V)		390
Max.Input Current (A)		16
Max.Short Crrent (A)		23
No.of MPPTTrackers	3	4
Strings per MPPTTracker		1
<b>AC Output Data (On-grid)</b>		
Nominal Power Output To Grid (VA)	8000	12000
Max.Power Outpur To Grid (VA)*	8000	12000
Max.Power From Grid (VA)	8000	12000
Nominal Output Voltage (V)		230
Nominal Output Frequency (Hz)		50
Nominal.AC Current To Grid (A)	34.8	52.2
Max.AC Current From Grid (A)	34.8	52.2
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging	
Output THDi (Nominal Power)	<3%	
<b>AC Output Data (Back-up)</b>		
Normal. Output Power(VA)	8000	12000
Peak Output Power(VA)	12000, 10s	16000, 10s
Rated. Output Current(A)	34.8	52.2
Nominal Output Voltage (Vac)		230
Nominal Output Frequency (Hz)		50
Output THDv (@Linear Load)		<3%
Switch time		< 20ms
Generator input		Yes
<b>Efficiency</b>		
MPPT efficiency		99.9%
Max. efficiency		97.5%
<b>Protection</b>		
Anti-island Protection		Integrated
PV&Battery AFCI		Integrated
PV Reverse Protection		Integrated
Battery Reverse Protection		Integrated
Residual Current Monitoring Unit		Integrated
Over Current/Voltage Protection		Integrated
DC Switch(PV)		Integrated
Surge Protection		DC Type II /AC Type III
<b>Communication Interface</b>		
Battery BMS		CAN
EMS		RS485
Meter		RS485
E-Stop		YES (DI)
Dry-Point		YES (DO)
Cloud		Wi-Fi,Bluetooth
Display/User Interface		LED/APP
<b>General Data</b>		
Operating Temperature Range (F)		-13~140(-25~60°C)
Relative Humidity (%)		0~100%
Operating Altitude (m)		3000m
Cooling		Nature Cooling
Noise (dB)		<35
Weight (kg)		30
Size(W/H/D)(mm)		486*730*210
Installation		Wall-Mounted
Endosure Type		IP65
<b>Certifications&amp;Standards</b>		
Grid Regulation		NRS 097
Safety Regulation		IEC/EN 62109-1, IEC/EN 62109-2
EMC		IEC/EN 61000-6-1/2/3/4

