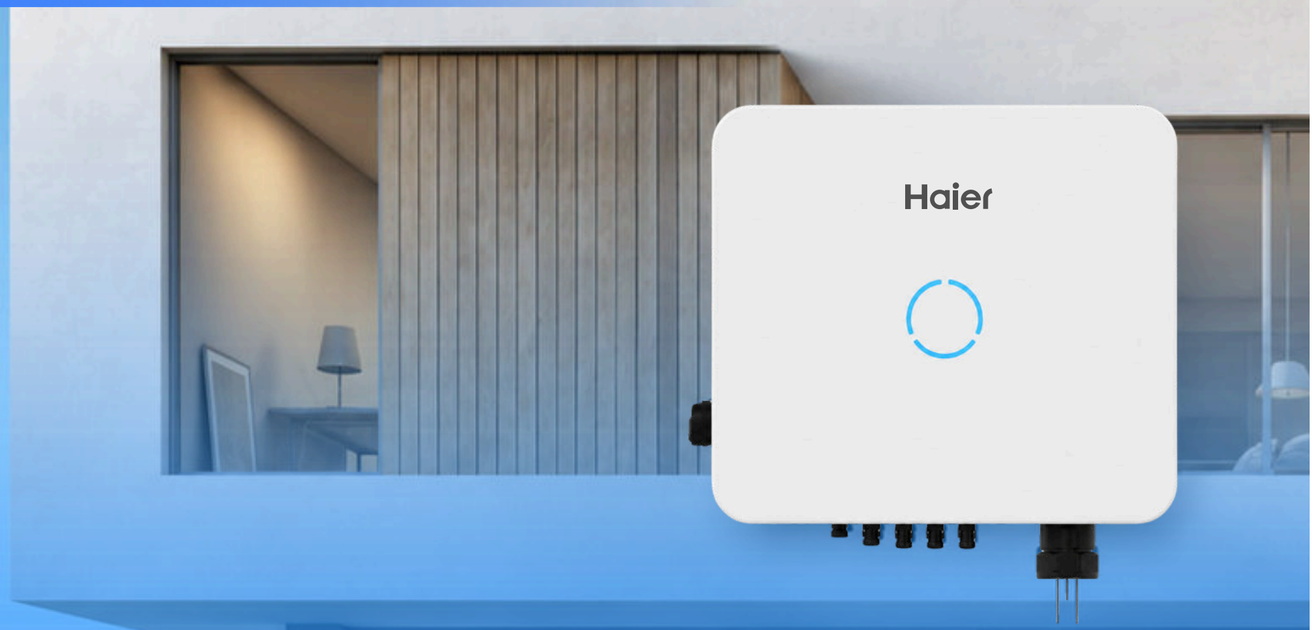
PV String Inverter

HS3P-15/17/20/23/25/30/33kW



SMART
Real-time I-V curve analysis for optimal performance.

EFFICIENT
Max. 98.6% conversion efficiency for unparalleled energy savings.

FLEXIBLE
Compatible with a wide range of input voltage & current. Low starting voltage, reduce energy losses.

QUIET
Noise is less than 30dB, ensuring a quiet and comfortable environment.

SAFE
Maximum protection with string current detection, AFCI, and integrated SPD.

CONNECTED
Manage and monitor everything remotely with our app and web portal.

SBEON | Haier Energy

	HS3P-15KW	HS3P-17KW	HS3P-20KW	HS3P-25KW	HS3P-25KW	HS3P-30KW	HS3P-33KW
Input (DC)							
Max. input voltage (V)	1100						
Max. input current per MPPT (A)	20 / 20	40 / 20	40 / 40	40 / 40	40 / 40	40 / 20 / 40	40 / 20 / 40
Max. short-circuit current (V)	30 / 30	30 / 30	50 / 50	50 / 50	50 / 50	50 / 30 / 50	50 / 30 / 50
Start-up voltage (V)	140						
Grid-connected voltage (V)	160						
MPPT operating voltage range (V)	140-1000						
Full-load MPPT voltage range (V)	420-600						
Rated input voltage (V)	600						
Number of MPPTs	2	2	2	2	2	3	3
Max. Input string per MPPT	1 / 1	2 / 1	2 / 2	2 / 2	2 / 2	2 / 1 / 2	2 / 1 / 2
Output (AC)							
Rated output power (kW)	15	17	20	25	25	30	33
Max. active power (kW)	16.5	16.7	22	25.3	27.5	33	36.3
Max. apparent power (kVA)	16.5	18.7	22	22.3	27.5	33	36.3
Rated AC grid frequency (Hz)	50 / 60						
Rated output voltage (V)	3P/N/PE,230/400						
Rated output current / Max. output current (A)	21.7 / 74	24.6 / 27.1	29 / 31.9	33.3 / 36.7	33.3 / 38.9	44.5 / 57.8	47.8 / 52.6
Adjustable power foctor	0.8 leading .- 0.8 lagging						
Max. total hormonic detection	< 3% (Rated power)						
Efficiency							
Max. efficiency	98.60%	98.60%	98.60%	98.60%	98.60%	98.80%	98.80%
European efficiency	98.40%	98.40%	98.40%	98.40%	98.40%	98.80%	98.80%
Protection Feature							
DC switch	Yes						
Anti-islanding protection	Yes						
AC over-current protection	Yes						
DC reverse-polarity protection	Yes						
IV curse scan	Yes						
DC surge protection	Type II						
AC surge protection	Type II						
Insulation resistance detection	Yes						
AC leakage current detection	Yes						
String current detection	Yes						
AFCI	Optional						
Display & Communication							
Display	LED						
RS485	Yes						
Modbus	Yes						
4G	Optional						
WiFI	Optional						
Bluetooth	Yes						
General Parameter							
Dimensions (W + H + D) (mm)	480*388*225						
Weight (kg)	20.9	21.2	22.0	23.3	24.0	24.3	24.3
Operating temperature range	-30°C -+60°C [1]						
Cooling	Natural cooling		Smart air cooling				
Noise	≤30dB	≤30dB	≤40dB	≤40dB	≤40dB	≤45dB	≤45dB
Max. operating altitude	4000m [2]						
Relative humality	0-100%						
Protection level	IP86						
Self-consumption at night	<1W						
Topology	Transformerless						
Compliance	IEC 62109, VDE-AR-N 4105:2018, VDE-AR-N 4110:2018, IEC 61000-6-3, EN 50545-1/2, CEI0-16 2019, VDE 0126-1-1/A1						

1. Derived above 48 °E
2. Derived stdod 2000m