

Hybrid Inverter(Three Phase)

-SNH5000DT-8,SNH6000DT-8,SNH8000DT-8,
SNH10KDT-8,SNH12KDT-8



PV Peak Efficiency--98.2%



Max. DC Overload--50%



MES + FCT + CRM Infrastructure



Easy to Install and Service



Aluminum Alloy Die Casting



Energy Management

MODEL	SNH5000DT-8	SNH6000DT-8	SNH8000DT-8	SNH10KDT-8	SNH12KDT-8
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PV INPUT

Max.PV Power(Wp)	7500	9000	12000	15000	18000
Max.Input Voltage(V)	1000				
MPP Voltage Range (V)	150~850				
Start Up Voltage(V)	145				
Nominal DC-Input Voltage (V)	620				
Max. Input Current (A)	15/15				
Max. short DC current (A)	20/20				
No. of MPPTs/No. Strings Per MPPT	2 / (1/1)				

BATTERY INPUT

Battery type	Li-Ion				
Input voltage range(V)	160-800				
Max charging/discharging current(A)	25/25				
Charging strategy for Li-Ion battery	Self-adaption to BMS				

AC OUTPUT/INPUT

Rated Power (W)	5000	6000	8000	10000	12000
Max. apparent AC power to Grid (VA)	5500	6600	8800	11000	13200
Max. active power from Grid (W)	10000	12000	15000	15000	18000
Max. apparent AC power from Grid (VA)	11000	13200	16500	16500	20000
Rated grid voltage (Vac)	380/400				
Grid Connection	3L-N-PE				
Rated power frequency (HZ)	50/60				
Max. output current (A)	8.5	10	13.5	16	20
Max. AC current from grid (A)	17	20	23	23	29
Adjustable displacement power factor	0.8ind to 0.8cap				
THDi at rated power	<3%				

AC OUTPUT(BACK-UP)

Rated Power (W)	5000	6000	8000	10000	12000
Peak Apparent Output Power(VA)	10000	12000	15000	15000	15000
Rated Output Voltage (V)	380/400				
Rated Output Frequency (HZ)	50/60				
Max. Output Current (A)	8.5	10	13.5	16	20
Auto Switch Time(ms)	<10				
THDi@Liner Load	<3%				

EFFICIENCY

Max. Efficiency	98%	98%	98.2%	98.2%	98.2%
Euro Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%
MPPT Efficiency	99.9%				
Charging Efficiency@PV-BATTERY	98.5%				
Charging/Discharging Efficiency @BATTERY-Grid/Load	97.6%				

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PROTECTION FUNCTION

Anti-islanding Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Insulation Resistor Detection	Integrated
Residual Current Monitoring Unit	Integrated
Output Over Current Protection	Integrated
Output Short Circuit Protection	Integrated
Over Voltage Protection	Integrated
Surge Protection	DC: Type II/AC: Type II
Battery Reverse Polarity Protection	Integrated

GENERAL DATA

Dimensions(W*H*D) mm	425*351*200
Weight (kg)	20
Noise emission(typical) dB(A)	40
User Interface	LED/LCD
PV Connection Type	MC4
BATTERY Connection Type	SUNCLIX
AC Connection Type	Plug-in Connector
Communication with Cloud	RS485/WiFi/4G/LAN (optional)
Communication with BMS	CAN,RS85
Communication with Meter	RS485
Cooling Method	Natural Cooling
Operating Ambient Temperature(°C)	-20~+60
Relative Humidity(%)	0-100
CT Connection Type	Plug-in Connector
Max. Operating Altitude(m)	2000 (>2000 Derating)
Climatic Category(IEC 60721-3-4)	4K4H
Protection Class	IP65
Topology	Transformerless
Night Consumption(W)	<13

