

SN6000T SERIES

Honwin SN6000T Series of industrial and commercial hybrid inverters, suitable for medium and large industrial and commercial roofs, are used to convert the direct current generated by photovoltaic panels into alternating current and transmit it to the grid in a three-phase manner. With energy storage batteries, to achieve a more economical working mode, and support for a wider battery voltage range. This series of 30kW~36kW can connect to 6 PV groups, 40kW~50kW 8 PV group strings, with 4 maximum power tracking points, which can be used to connect 4 groups of different panel arrays. Up to 98.7% efficiency, to maximize the continuous long-term benefits for customers.

HONWIN TECH



*This product drawing is for reference only, and the delivery is subject to the physical objects!



3 / 4 path independent maximum power point tracking



The 200V-1100V input voltage range



Support generator



Maximum efficiency up to 98.7%



Compatible with RS485/WIFI/GPRS



DC Over-configuration 1.5x



Touch-able keys



Protection level: IP66

Technical parameters	SN6000T -12K	SN6000T -15K	SN6000T -20K	SN6000T -25K	SN6000T -30K
Efficiency					
Max efficiency	98.60%	98.60%	98.60%	98.70%	98.70%
Chinese efficiency	98.10%	98.20%	98.20%	98.30%	98.30%
MPPT efficiency	99.90%	99.90%	99.90%	99.90%	99.90%
Max. Charge and Discharge efficiency	96.80%	97.00%	97.10%	97.30%	97.50%
DC (PV) Input					
Max. Input power	18kW	22.5kW	30kW	37.5kW	45kW
Max. DC input voltage	1000V				
Start-up voltage	180V				
MPPT voltage range	180 ~850V				
Rated input voltage	620V				
Max. input current per MPPT	14.5A	18.1A	24.2A	30.2A	24.2A
Max. short circuit current per MPPT	21.7A	27.1A	36.3A	45.3A	36.3A
MPPT quantity	1	2	2	2	3
Maximum input channels	2	4	4	4	6
Battery Parameters					
Battery type	lithium battery				
Charge / Discharge power	12kW	15kW	20kW	25kW	30kW
Battery voltage range	200 ~ 800V				
Max charge / discharge current	50A	50A	50A	50AX2(100A)	70AX2(140A)
BMS communication mode	RS485 , CAN				
AC (on-grid) Output					
Rated output power	12kVA	15kVA	20kVA	25kVA	30kVA
Max. Apparent power	13.2kVA	16.5kVA	22kVA	27.5kVA	33kVA
Rated grid voltage / range	220V/380V,380V/400V				
Rated grid frequency	50Hz/60Hz				
Max. output current	20A	25A	33.3A	41.7A	50.1A
Grid connection type	3P3W+PE / 3P4W+PE				
Output power factor	> 0.99 (0.8leading0.8 lagging)				
THDI	≤ 3%				
AC (Power grid) Input					
Maximum input apparent power	18kVA	22.5kVA	27.5kVA	27.5kVA	45kVA
Maximum bypass current	27.3A	34.1A	41.7A	41.7A	68.4A
Rated input voltage	220V/380V,380V/400V				
Rated input frequency	50Hz/60Hz				
AC (Off-grid) Output					
Rated output power	12kVA	15kVA	20kVA	25kVA	30kVA
Maximum output apparent power	13.2kVA	16.5kVA	22kVA	27.5kVA	33kVA
Rated output voltage	220V / 380V,380V / 400V				
Rated output frequency	50Hz / 60Hz				
Maximum output current	20A	25A	33.3A	41.7A	50.1A
Load connection type	3P3W +PE / 3P4W +PE				
Grid connection-off-grid switching time	≤10ms				
THDV	≤ 3%				
Generator input					
Max. Input power	12kW	15kW	20kW	25kW	30kW
Rated input current	18.2A	22.8A	30.4A	38A	45.5A
Rated input voltage	380V/400V				
Rated input frequency	50Hz/60Hz				
Protection & Feature					
Generator function	Possess				
PV input current protection	Possess				
Battery over-voltage / under-voltage protection	Possess				
DC input switch	Possess				
DC Surge protection	Class II				
AC Surge protection	Class II				
AC Short-circuit protection	Possess				
DC / AC Lightning protection	Class II				
Power grid monitoring	Possess				
leakage current detection	Possess				
Residual current detection	Possess				
Insulation impedance testing	Possess				
Anti-islanding protection	Possess				
Arc Fault Detection (AFCI)	Optioal				
Basic parameters					
Dimension (W * H * D)	520 *660 *220mm				520*920*300mm
Weight (without battery)	45Kg				80Kg
Operating temperature range	-30℃ ~ +60℃				
Relative humidity	0 ~ 100% , without condensation				
Max. Operating altitude	4000m (2000 m without derating)				
Night self-consumption of electricity	< 20W				
opological structure	Without transformer				
Cooling method	Intelligent air-cooling				
Protection level	IP66				
Features					
DC input connector	H4/MC4 (optional)				
AC output connector	Waterproof PG connector + OT terminal				
Display	OLED + LED / APP				
Communication interface	Bluetooth / RS485 / WIFI / GPRS (Standard / Standard / Optional / Optional)				
Maintain quality	5 years / 10 years (Standard / Optional)				
Safety	IEC 62109 -1、IEC 62109 -2、EN 61000 -6 -1、EN 61000 -6 -3、EN 61000 -3 -11				