

1100V SYSTEM STRING PHOTOVOLTAIC INVERTER 5



High efficiency

Maximum efficiency is 99%, and China's efficiency is 98.5%
12-channel MPPT, suitable for complex application environment
The maximum DC 20A for a single string, supporting large power modules above 600W
Integrated PID protection and repair to improve system power generation



Intelligence

High-precision string monitoring and I-V curve scanning to accurately locate abnormal strings
Power factor ± 0.8 adjustable, full load power factor above 0.9, support night SVG function
Redundant AC and DC power supply, 24 hours status monitoring



Cost-saving

Supports serial connection and saves the cost of DC cables
Support aluminum wire connection, saving AC cable cost
Support PLC carrier communication, saving communication cable and construction cost



Reliable

The protection grade of the whole machine is IP66, C5 anti-corrosion grade
IP68 smart fan to improve system reliability
Adapt to extreme environments such as high temperature, high humidity, and high altitude

TECHNICAL PARAMETERS

PRODUCT NUMBER	TPOWER-NM5.136K
DC SIDE PARAMETERS	
Maximum open circuit voltage	1100V
Starting voltage	250V
MPPT voltage range	200~1000V
Full load MPPT voltage range	550V~850V
Number of MPPT	12
Maximum DC number of each MPPT	2
Maximum input current	12*40A
AC SIDE PARAMETERS	
Rated output power	136kW
Maximum output power	150kW
Maximum output apparent power	150kVA
Maximum output current	160.4A
Rated electrical voltage	3/PE,540V
Electric voltage range	459~594V
Electric frequency range	45~55Hz/55~65Hz
Power factor	>0.99 (rated power)
Power factor adjustment range	0.8 (Leading) ~0.8 (Lagging)
Total harmonic distortion	<3% (rated power)
SYSTEM PARAMETERS	
Maximum efficiency	99.01%
Chinese efficiency	98.52%
Island protection	Have
PID protection and repair	Optional
DC reverse connection protection	Have
Output overcurrent protection	Have
DC input switch	Have
Surge protection	DC sub-level / AC sub-level

PRODUCT NUMBER	TPOWER-NM5.136K
BASIC PARAMETERS	
(width × depth × height)	1050×660×365mm
Weight	95kg
Topology	无变压器
Ingress Protection	IP66
Night loss	<5W
Cooling method	Intelligent wind-cooling
Highest working altitude	5000m (>4000m Derating)
Working environment temperature	-30~60°C (>50°C Derating)
Working environment humidity	0~100%
Monitor	LED,Bluetooth+APP
Communication	RS485/PLC (Optional)