

# 1500V SYSTEM STRING PHOTOVOLTAIC INVERTER 4



## 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  $\pm 0.8$  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-NM6.250K
<b>DC SIDE PARAMETERS</b>	
Maximum open circuit voltage	1500V
Starting voltage	500V
MPPT voltage range	500~1500V
Full load MPPT voltage range	880V~1300V
Number of MPPT	12
Maximum DC number of each MPPT	2
Maximum input current	12*40A
<b>AC SIDE PARAMETERS</b>	
Rated output power	250kW
Maximum output power	275kW
Maximum output apparent power	275kVA
Maximum output current	198.5A
Rated electrical voltage	3/PE,800V
Electric voltage range	680~880V
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)
<b>SYSTEM PARAMETERS</b>	
Maximum efficiency	99%
Chinese efficiency	98.5%
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-NM6.250K
<b>BASIC PARAMETERS</b>	
(width × depth × height)	1050×660×365mm
Weight (including wall mount)	102kg
Topology	No transformer
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)