

tPower-NM5 STRING PV INVERTER



Technical Parameters

Type designation	tPower-NM5
Input (DC)	
Max. PV input voltage	1500V
Nominal PV input voltage	1080V
Start-up input voltage	500V
MPPT voltage range	500 ~1500V
Number of MPPT	12
Max. number of input connector per MPPT	2
Max. PV input current	12 * 30 A
Max. DC short-circuit current per MPPT	50A
Output (AC)	
AC output power	225kW@40°C
Max. AC output current	178.7A
Nominal AC voltage	3/PE, 800V
AC voltage range	680V ~ 880V
Nominal grid frequency/ Grid frequency range	50Hz/ 45~55 Hz, 60 Hz/ 55~65 Hz
Power factor	>0.99@Pn
Power factor range	0.8 leading ~ 0.8 lagging
Harmonic (THDi)	<3%@Pn

Product features

Efficient

- 12 MPPTs, max. inverter efficiency 99.10%
- 30A per MPPT, compatible with 182/210 module
- No derating up to 40°C, max. operating altitude 5000m

Friendly

- Fast power response, reactive power response time <30ms
- SCR≥1.0 stable operation in extremely weak grid
- Continuous Low/High voltage ride through

Intelligent

- Intelligent DC switch, automatically cut off the fault
- Smart IV Curve diagnosis, active O&M
- Q at night function, save investment cost

Reliable

- IP65 protection degree, C5 anti-corrosion degree
- DC arc alarm function, higher system reliability
- 24h real-time AC and DC insulation monitoring

Efficiency	
Inverter Max. efficiency	99.10%
Inverter European efficiency	98.72%
Protection & Function	
Island protection	Yes
Surge protection	DC Type II/AC Type II
DC reverse connection protection	Yes
DC switch	Yes
AC overcurrent protection	Yes
LVRT/HVRT	Yes
Intelligent string monitoring	Yes
Anti-PID/PID recovery	Yes/Optional
Q at night function	Optional
General parameter	
Dimensions (W×D×H)*	1115x383x852mm
Weight (with hangers)*	≤110kg
Isolation method	Transformerless
Protection degree	IP66
Power consumption at night	< 5W
Cooling method	Intelligent air cooling
Max. operating altitude	5000m (>4000m derating)
Operating ambient temperature range	-30°C ~ 60°C
Allowable relative humidity range	0 ~ 100%
Display	LED, Bluetooth+APP
Communication	RS485/PLC/wireless
DC connection type	MC4 terminal
AC connection type	OT/DT terminal (max. 400mm ² , support aluminum wire access)
Standard compliance	IEC 62109-1/-2, IEC 61000-6-2/-4, NB/T 32004-2018, GB/T 37408-2019

*Note: Actual dimension and weight are subject to delivery.