

tPower-NM5.350K STRING PV INVERTER



Product Features



Efficient

- 12 MPPTs, max. inverter efficiency 99.04%
- 45A per MPPT, compatible with 600Wp+ PV 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

Technical Parameters

| Type designation | tPower-NM5.350K |
|---|-----------------|
| Input (DC) | |
| Max. PV input voltage | 1500V |
| Nominal PV input voltage | 1080V |
| Start-up input voltage | 500V |
| MPPT voltage range | 500V~1500V |
| Number of MPPT | 12 |
| Max. Number of input connector per MPPT | 2/3 |
| Max. PV input current | 12*45A |
| Max. DC short-circuit current per MPPT | 60A |

Technical Parameters

| Output (AC) | |
|--|--|
| AC output power | 352kVA@30°C / 320kVA@40°C |
| Max. AC output current | 254A |
| 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) | <1%@Pn |
| Efficiency | |
| Inverter Max. efficiency | 99.04% |
| Inverter European efficiency | 98.73% |
| 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)* | ≤120kg |
| 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 | -40°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) |
| Compliance | IEC 62109-1/-2, IEC 61000-6-2/-4, IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50530, EN 50549, NB/T 32004-2018, GB/T 37408-2019 |

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