

# TGN1500-3300ME/4400ME INVERTER-MV ALL-IN-ONE SOLUTION



## Product Features



Efficient

- Patented MPPT control technology, max. inverter efficiency 99.07%
- Multi-MPPT design, higher power generation
- Copper bar connection, Integrated all-in-one design, lower system losses



Friendly

- Integrated deployment, unified power dispatch interface, easy for O&M
- SCR≥0.97 stable operation in ultra weak grid
- Continuous Low/High voltage ride through



Intelligent

- Integrated branch power analysis function for string fault diagnosis
- Modular design, flexible parallel expansion
- Health management and fault alarm for key components
- Remote upgrading and online maintenance



Reliable

- IP65 protection rating, adapt to various harsh environments
- Autonomous isolation of faulty modular units, higher system availability
- DC arc alarm, coordinated control with combiner boxes, higher system reliability

## Technical Parameters

| Type designation                             | TGN1500-3300ME                                                                                                                       |              | TGN1500-4400ME    |              |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|--------------|
| Input (DC)                                   |                                                                                                                                      |              |                   |              |
| Max. input voltage                           | 1500V                                                                                                                                |              |                   |              |
| Max. input current                           | 3*1435A                                                                                                                              |              | 4*1435A           |              |
| Number of DC inputs                          | 15 (optional: 18)                                                                                                                    |              | 20 (optional: 24) |              |
| Number of MPPT                               | 3                                                                                                                                    |              | 4                 |              |
| MPPT voltage range                           | 895V~1500V                                                                                                                           | 940V~1500V   | 895V~1500V        | 940V~1500V   |
| Start-up input voltage                       | 905V                                                                                                                                 | 955V         | 905V              | 955V         |
| MPPT efficiency                              | 99.9%                                                                                                                                |              |                   |              |
| PV array configuration                       | Floating (optional: negative grounding)                                                                                              |              |                   |              |
| Output (AC)                                  |                                                                                                                                      |              |                   |              |
| Nominal output voltage                       | 630V                                                                                                                                 | 660V         | 630V              | 660V         |
| Nominal output power                         | 3300kVA@45°C                                                                                                                         | 3300kVA@51°C | 4400kVA@45°C      | 4400kVA@51°C |
| Max. output power                            | 3795kVA@25°C                                                                                                                         | 3795kVA@30°C | 5060kVA@25°C      | 5060kVA@30°C |
| Nominal grid voltage                         | 10~35kV                                                                                                                              |              |                   |              |
| Nominal grid frequency /Grid frequency range | 50Hz/45Hz~55Hz , 60Hz/55Hz~65Hz                                                                                                      |              |                   |              |
| Power factor                                 | >0.99@Pn                                                                                                                             |              |                   |              |
| Power factor range                           | 0.8 leading ~ 0.8 lagging                                                                                                            |              |                   |              |
| Feed-in phases / AC connection               | 3 / 3                                                                                                                                |              |                   |              |
| Harmonic (THDi)                              | <3%@Pn                                                                                                                               |              |                   |              |
| Efficiency                                   |                                                                                                                                      |              |                   |              |
| Inverter Max. efficiency                     | 99.07%                                                                                                                               |              | 99.07%            |              |
| Inverter European efficiency                 | 98.7%                                                                                                                                |              | 98.7%             |              |
| Protection & Function                        |                                                                                                                                      |              |                   |              |
| DC input protection                          | Load break switch + fuse                                                                                                             |              |                   |              |
| AC output protection                         | Circuit breaker                                                                                                                      |              |                   |              |
| Surge protection                             | DC Type II/AC Type-II                                                                                                                |              |                   |              |
| LVRT/HVRT                                    | Yes                                                                                                                                  |              |                   |              |
| AC-side parallel                             | Yes                                                                                                                                  |              |                   |              |
| Anti-PID/PID recovery                        | Yes/Optional                                                                                                                         |              |                   |              |
| Night SVG function                           | Optional                                                                                                                             |              |                   |              |
| Fault recording diagnosis                    | Yes                                                                                                                                  |              |                   |              |
| Online software upgrading                    | Yes                                                                                                                                  |              |                   |              |
| General parameter                            |                                                                                                                                      |              |                   |              |
| Dimensions(W*D*H)*                           | 5600*2438*2800mm                                                                                                                     |              | 6600*2438*2800mm  |              |
| Weight*                                      | 12T                                                                                                                                  |              | 15T               |              |
| Protection degree                            | IP54 (MV Station) 、IP65 (Inverter)                                                                                                   |              |                   |              |
| Transformer type                             | Liquid immersed/dry type                                                                                                             |              |                   |              |
| Cooling method                               | Intelligent air cooling (inverter)、Natural cooling (MV Station)                                                                      |              |                   |              |
| Max. operating altitude                      | 5000m (>3000m derating)                                                                                                              |              |                   |              |
| Operating ambient temperature range          | -35°C ~ 60°C                                                                                                                         |              |                   |              |
| Allowable relative humidity range            | 0 ~ 100%                                                                                                                             |              |                   |              |
| Display                                      | LED indicators, APP                                                                                                                  |              |                   |              |
| Communication                                | RS485, Ethernet, optical fiber (optional)                                                                                            |              |                   |              |
| Standard compliance                          | IEC 62109-1/-2, IEC 61000-6-2/-4, IEC 61727, IEC 62116, IEC 60068, IEC 61683, NB/T 32004-2018, GB/T 37408-2019, IEC 60076, IEC 62271 |              |                   |              |

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