

1500V SYSTEM INVERTING AND BOOST SUPPORTING MACHINE



High efficiency

Integrated 1500V high-efficiency centralized inverter
 Dry-type Transformer and oil-immersed Transformer can be configured
 45°C 1.1 times of overload period, 50°C full load operation
 Integrated box change measurement and control, one-stop communication



Intelligence

Integrated multi-function management unit, smart operation management
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 Standardized electrical dispatching connection, rapid deployment and debugging



Cost-saving

Turnkey solution, saving construction cost
 Optimize low-voltage power distribution, connection cables, installation foundation, and reduce BOS by 10%
 Integrated design, saving operation and maintenance costs



Reliable

Adapt to complex environments such as high altitude, high temperature, and extreme cold
 Standardized manufacturing of the whole machine, good consistency
 Centralized maintenance, cost-effective
 PID repair function to reduce component attenuation

TECHNICAL PARAMETER

| PRODUCT NUMBER | TGN1500-2500ME | TGN1500-3000ME |
|---------------------------------|------------------------------|----------------|
| DC side parameters | | |
| Maximum open circuit voltage | 1500VDC | |
| Maximum DC current | 2×1718A | 2×1900A |
| Number of inputs | 20 | 20 |
| MPPT quantity | 2 | 2 |
| Full load MPPT voltage range | 800V~1300V | 875V~1300V |
| MPPT voltage tracking range | 800V~1450V | 875V~1450V |
| Starting voltage | 840V | 915V |
| MPPT efficiency | 99.9% | 99.9% |
| AC side parameters | | |
| Rated Power | 2500kW | 3125kW |
| Maximum power | 2750kW | 3437kW |
| Rated electrical voltage | 10~35kVAC | |
| Electric frequency range | 45~50Hz/55~60Hz | |
| Rated electrical frequency | 50Hz/60Hz | |
| 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 (inverter) | 99.07% | 99.07% |
| Chinese efficiency (inverter) | 98.55% | 98.55% |
| High / low voltage ride through | Have | |
| AC side parallel | Have | |
| PID repair | Optional | |
| SVG | Optional | |
| Disturbance recorder diagnosis | Have | |
| Online upgrade | Have | |

| PRODUCT NUMBER | TGN1500-2500ME | TGN1500-3000ME |
|---------------------------------|---|----------------|
| Basic parameters | | |
| Size (width × depth × height) | 5180×3103×2440mm | |
| Weight | 12T | |
| Ingress Protection | Ip55 | |
| Transformer form | Dra-type Transformer / oil-immersed Transformer | |
| Cooling method | Intelligent wind-cooling | |
| Highest working altitude | 5000m (>3000m derating) | |
| Working environment temperature | -35°C~60°C | |
| Working environment humidity | No condensation | |
| Monitor | LED | |
| Communication | RS485, Ethernet, fiber optic ring (optional) | |