

TGN1500-3125ME/3300ME INVERTER-MV ALL-IN-ONE SOLUTION



Technical Parameters

Type designation	TGN1500-3125ME	TGN1500-3300ME
Input (DC)		
Max. input voltage	1500V	
Max. input current	2×1984A	2×2163A
Number of DC inputs	16 (Optional 18)	16 (Optional 18)
Number of MPPT	2	2
MPPT voltage range	875V~1500V	895V~1500V
Start-up input voltage	915V	905V
MPPT efficiency	99.9%	
Output (AC)		
Nominal output power	3125kVA@45°C	3300kVA@45°C
Max. output power	3437kVA@35°C	3795kVA@25°C
Nominal grid voltage	10~35kV	
Grid frequency range	45~50Hz/55~60Hz	
Nominal grid frequency	50Hz/60Hz	
Power factor	>0.99@Pn	
Power factor range	0.8 leading~0.8 lagging	
Harmonic (THDi)	<3%@Pn	

Product Features

Efficient

- Max. inverter efficiency 99.07%
- Compatible with 600Wp+ PV modules
- 1.1 times overload operation at 45°C, full power operation at 50°C

Cost-saving

- Integrated deployment, unified power dispatch interface, easy for O&M
- SVG function, save investment cost
- Reserved interface for energy storage integration

Intelligent

- Integrated branch power analysis function for string fault diagnosis
- Comprehensive grid support function (L/HVRT, f regulation, AGC/AVC, etc.)
- Fast power response, satisfy panoramic monitoring response requirements

Reliable

- IP55/IP65 protection rating, adapt to various harsh environments
- Integrated all-in-one design, higher connection reliability
- DC arc alarm, coordinated disconnection control with combiner boxes, higher system reliability

Efficiency		
Inverter Max. efficiency	99.06%	99.03%
Inverter European efficiency	98.7%	98.7%
Protection & Function		
LVRT/HVRT	Yes	
AC-side parallel	Yes	
Anti-PID/PID recovery	Yes/Optional	
Night SVG function	Optional	
Fault recording diagnosis	Yes	
Online software upgrade	Yes	
General parameter		
Dimensions(W*D*H)*	5000*2500*2600mm	
Weight*	12T	12T
Protection degree	MV Station IP54, Inverter IP55 (optional IP65)	
Power consumption at night	Liquid immersed/dry type	
Cooling method	Temperature controlled forced air cooling	
Max. operating altitude	5000m (>3000m derating)	
Operating ambient temperature range	-35°C ~ 60°C	
Allowable relative humidity range	0 ~ 100%	
Display	LCD	
Communication	RS485, Ethernet, optical fiber (optional)	
Standard compliance	IEC 62109-1/-2, IEC 61000-6-2/-4, IEC 61727, IEC 62116, IEC 60076, NB/T 32004-2018, GB/T 37408-2019, IEC 60076, IEC 62271	

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