

TGN1500-6600ME/8800ME
INVERTER-MV ALL-IN-ONE SOLUTION



Product Features

- Efficient**

 - Max. inverter efficiency 99.07%, max. transformer efficiency 99.5%
 - Transformer compliance with energy efficiency standard IEC 60076-20
 - Copper bar connection, effective cooling for lower system losses
- 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
 - Modular design, flexible parallel expansion
 - Distributed control of modular unit, higher system availability
 - Comprehensive grid support function (L/HVRT, f regulation, AGC/AVC, etc.)
- Reliable**

 - IP65 protection degree, 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	≥99.0%	≥99.0%
Inverter European efficiency	≥98.7%	≥98.7%
Transformer efficiency	≥99%@Pn	≥99%@Pn
Protection		
DC input protection	Load break switch + fuse	
AC output protection	Circuit breaker	
Surge protection	DC Type II/AC Type-II	
Grid monitoring	Yes	
Ground fault protection	Yes	
Insulation monitoring	Yes	
Overheat protection	Yes	
Other function		
Anti-PID/PID recovery	Yes/Optional	
Night SVG function	Yes	
Soft power on, shutdown	Yes	
General parameter		
Dimensions(W*H*D)*	12192*2896*2438mm	
Weight*	≤28t	≤32t
HV switchgear	SF6 RMU(DV/CV/CCV)	
Transformer type	Liquid immersed	
Transformer vector	Dy11y11	
Protection degree	IP54 (MV Station) 、IP65 (Inverter)	
Power consumption at night	<200W (inverter)	
Cooling method	Intelligent forced air cooling (inverter)、ONAN or KNAN (Transformer)	
Operating ambient temperature range	-35℃ ~ 60℃	
Allowable relative humidity range	0 ~ 100%	
Max. operating altitude	5000m (>3000m derating)	
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.

Technical Parameters

Type designation	TGN1500-6600ME		TGN1500-8800ME	
Input (DC)				
Max. input voltage	1500V			
Min./Start-up input voltage	895V/905V	940V/955V	895V/905V	940V/955V
MPPT voltage range	895V~1500V	940V~1500V	895V~1500V	940V~1500V
Number of MPPT	6		8	
Number of DC inputs	30 (optional: 36)		40 (optional: 48)	
Max. input current	6*1435A		8*1435A	
Max. DC short-circuit current	6*3528A		8*3528A	
PV array configuration	Floating (optional: negative grounding)			
Output (AC)				
Nominal output voltage(inverter)	630V	660V	630V	660V
Nominal output power	6600kVA@45℃	6600kVA@51℃	8800kVA@45℃	8800kVA@51℃
Max output power	7590kVA@25℃	7590kVA@30℃	10120kVA@25℃	10120kVA@30℃
Nominal grid voltage	10~35kV		20~35kV	
Nominal grid frequency	50Hz/60Hz			
Grid frequency range	45~55Hz/50~55Hz			
Harmonic (THDi)	<3%@Pn			
Power factor	>0.99@Pn			
Power factor range	0.8 leading ~ 0.8 lagging			
Feed-in phases / AC connection	3 / 3			