

Three-phase Residential On-grid Inverter



PRO G3

20kW / 25kW / 30kW



High Efficiency

- 98.8% ultra-high efficiency with SiC technology
- Wide MPPT & low start-up voltage for more yield
- Max. 40A input current per MPPT
- 150% PV oversizing & 110% continuous AC output



Assured Safety

- AI-powered AFCI + auto-trip switch for ultimate safety (Optional)
- Type II DC/AC surge protection for lightning safety
- IP66 ingress protection and C5 corrosion resistance



Intelligent Design

- Direct CT connection for superior response speed
- 60% less grid feed-in with CT, grid-friendly and worry-free
- Unit-to-unit direct paralleling for seamless power control
- Online I-V curve scanning for smart string fault diagnosis



Flexible Adaptability

- Supports fuel-saving generator solutions
- 24/7 real-time monitoring via WiFi, LAN, or 4G
- Supports AC-side aluminum wiring

PRO20T-S3		PRO25T-S3	PRO30T-S3
PV INPUT			
Max. recommended PV array power	30.0 kWp	37.5 kWp	45.0 kWp
Max. PV input voltage ^①	1100 d.c. V		
Rated PV input voltage	600 d.c. V		
Operating voltage range	140 - 1000 d.c. V		
Start-up voltage	160 d.c. V		
No. of MPP trackers / Strings per MPP tracker	2 / (2 / 2)		3 / (2 / 2 / 1)
Max. input current per MPPT	40 / 40 d.c. A		40 / 40 / 20 d.c. A
Max. input short circuit current per MPPT	50 / 50 d.c. A		50 / 50 / 25 d.c. A
AC OUTPUT (ON-GRID)			
Rated output apparent power	20 kVA	25 kVA	30 kVA
Rated output current	30.4 a.c. A @220 a.c. V 29.0 a.c. A @230 a.c. V	37.9 a.c. A @220 a.c. V 36.3 a.c. A @230 a.c. V	45.5 a.c. A @220 a.c. V 43.5 a.c. A @230 a.c. V
Max. output apparent power	22 kVA	27.5 kVA	33 kVA
Max. output continuous current	33.4 a.c. A @220 a.c. V 31.9 a.c. A @230 a.c. V	41.7 a.c. A @220 a.c. V 39.9 a.c. A @230 a.c. V	50.0 a.c. A @220 a.c. V 47.9 a.c. A @230 a.c. V
Rated AC voltage	3W / N / PE, 220 / 380 a.c. V 3W / N / PE, 230 / 400 a.c. V		
Rated AC frequency	50 Hz / 60 Hz		
AC frequency range ^②	50 ± 5 Hz / 60 ± 5 Hz		
Adjustable power factor range	~ 1 (0.8 lagging to 0.8 leading)		
EFFICIENCY			
Max. efficiency	98.8%		
European efficiency	98.5%		
ENVIRONMENT LIMIT			
Ingress protection	IP66		
Operating temperature range	-30 – 60°C (> 45°C derating)		
Max. operating altitude	4000 m		
Relative humidity	4 – 100 % RH (condensing)		
Overvoltage Category	Mains: III / PV: II		
GENERAL			
Dimensions (W × H × D)	500 x 472 x 180 mm		
Net weight	20 kg		
Cooling concept	Smart air cooling		
Communication interfaces	RS485, USB, CT(Optional), DRM, DI/DO		
Power consumption (night)	<1 W		
Topology	Non-isolated		
Certifications	IEC 60068, IEC61683, IEC50530, IEC61727		
AC auxiliary power supply (APS)	Optional		
PROTECTION			
Protections	Over / under voltage protection, DC isolation protection, DC reverse-polarity protection, Grid monitoring, DC injection monitoring, Back feed current monitoring, Residual current detection, Over temperature protection, AC overcurrent protection, AC short-circuit protection		
Surge protection (DC / AC)	DC: Type II, AC: Type II		
Arc-fault circuit interrupter (AFCI)	Optional		

① The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter

② The AC frequency range may vary from different country codes