



Deltron ToG -3P Series Off-Grid Solar Inverter

| 10KVA -120KVA / 3:3 / PF: 0.9



- Multiple MPPT charger controllers
- Hot-swap MPPT modules for easy maintenance and expansion
- Configurable battery parameters via LCD settings
- Self-regulation for charging voltage and current
- Intelligent AC and PV complementation power supply
- Intelligent staggering power consumption function
- Multiple remote control

OFF-GRID SOLAR INVERTER

10 kVA ~ 120 kVA (3:3)

Deltron ToG -3P Series is an off-grid three-phase transformer based hybrid solar inverter equipped with multiple and hot swappable MPPT Solar charger, selectable input voltage range and an LCD display. ToG -3P Series is designed for rugged and harsh environment suitable for under-served and unserved rural communities, communication base stations, power instability areas, islands, border posts, scenic area management offices, newspaper booths, battery-pack matching of battery manufacturer, etc.



SPECIFICATIONS

MODEL	ToG 10K	ToG 20K	ToG 30K	ToG 40K	ToG 60K	ToG 80K	ToG 100K	ToG 120K
Rated power	9 kW	18 kW	27 kW	36 kW	54 kW	72 kW	90 kW	108 kW
Operating mode	AC and PV complementation							
PV INPUT								
Max. input power	25 kW	2 × 25 kW		3 × 25 kW		4 × 25 kW	5 × 25 kW	6 × 25 kW
Max. input voltage	750 Vdc							
Rated input voltage	500 Vdc							
Start-up voltage	≥ (battery voltage + 20) Vdc							
Max. input current	60 A	120 A		180 A	240 A	300 A	360 A	
MPPT voltage range (Full load)	450 ~ 550 Vdc							
Number of MPPTs	1 + 1 (reserved)		2 + 1 (reserved)		3 + 1 (reserved)	4 + 2 (reserved)	5 + 3 (reserved)	6 + 2 (reserved)
AC INPUT								
Input voltage	380 Vac ± 20% (line voltage), three-phase (rectifier) 380 Vac ± 20% (line voltage) three-phase + N + PE (bypass)							
Input frequency	(50 / 60 Hz) ± 5 Hz							
OUTPUT								
Output voltage	380 / 400 / 415 Vac ± 1% (line voltage), three-phase + N + PE							
Output frequency	(50 / 60 Hz) ± 1 Hz							
Rated output current	15 A	30 A	45 A	60 A	91 A	120 A	152 A	182 A
Waveform	Sinusoidal							
THD	THDu ≤ 3% (linear load)							
BATTERIES								
Battery type	Lead-acid battery / Li-ion battery (optional)							
Battery voltage	360 Vdc							
Charging current	15 A by default, settable based on inverter model and battery capacity							
TRANSFER TIME								
PV ↔ AC	0 ms							
EFFICIENCY								
Max. efficiency	≥ 91%		≥ 92%		≥ 93%			
MPPT efficiency	≥ 98% (max.)							
OTHERS								
Protections	Over / under voltage, over / under-frequency, output overload, short-circuit, overtemperature, battery low voltage, overcharge, PV reverse polarity							
Communications	RS232 / RS485 / dry contacts (standard), SNMP / Wi-Fi / GPRS (optional)							
Display	LCD & LED							
Standards	EN 62040-1, EN 62040-2, IEC 62040-2							
IP rating	IP 20							
Operating temperature	0°C ~ 40°C							
Relative humidity	90% (non-condensing)							
Altitude	1000 m at rated power (derating 1% for each additional 100 m); Max. 4000 m							
Noise level at 1 m	≤ 65 dB (varies with loads and temperature)							
Dimensions (W × D × H) (mm)	450 × 840 × 1100		600 × 700 × 1750			960 × 800 × 1700		
Packaged dimensions (W × D × H) (mm)	560 × 940 × 1300		700 × 800 × 1950			1060 × 900 × 1900		
Net Weight (kg)	210	223	360	410	495	828	834	840
Gross Weight (kg)	230	245	380	430	515	848	854	860

● All specifications are subject to change without notice.