



Deltron ToG -1P Series Off-Grid Solar Inverter

| 3kW- 8kW 1:1 / PF: 1



- Pure sine wave inverter
- Output factor 1.0
- MPPT control using PWM technology
- AC input with online synchronous stabilization
- Zero transfer time
- Selectable PV priority / utility power priority
- Selectable charging current
- Superior protections

OFF-GRID SOLAR INVERTER

3 kW ~ 8 kW

ToG -1P Series is an off-grid single-phase transformer based hybrid solar inverter equipped with multiple and hot swappable MPPT Solar charger, selectable input voltage range and an LCD display. ToG -1P 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 3000	ToG 4000	ToG 3000	ToG 5000	ToG 6000	ToG 8000
Rated power	3 kW	4 kW	3 kW	5 kW	6 kW	8 kW
Operating mode	PV priority / AC priority					
PV INPUT						
Max. input power	5760 W		7680 W	11520 W		
Max. input voltage	200 Vdc		400 Vdc			
Rated input voltage	130 Vdc		260 Vdc			
Start-up voltage	≥ Battery voltage					
Max. input current	60 A		40 A	60 A		
MPPT voltage range (Full load)	120 ~ 142 Vdc		240 ~ 284 Vdc			
Number of MPPTs	1					
AC INPUT						
Input voltage	165 ~ 275 Vac					
Input frequency	40 ~ 70 Hz (overclocking : auto transfer to DC power supply)					
OUTPUT						
Output voltage	220 Vac ± 5%					
Output frequency	50 / 60 Hz ± 1% (auto-sensing)					
Rated output current	13.6 A	18.2 A	13.6 A	22.7 A	27.3 A	36.4 A
Power factor	1					
Waveform	Sinusoidal					
THD	THDu ≤ 5% (Linear load)					
BATTERIES						
Battery type	Lead-acid battery					
Battery voltage	96 Vdc		192 Vdc			
Charging current	PV mode	10 / 20 / 30 / 60 A (optional)		10 / 20 / 30 / 40 A (optional)	10 / 20 / 30 / 60 A (optional)	
	AC mode	8 A		6 / 8 / 10 / 12 A (optional)		
TRANSFER TIME						
PV ↔ AC	0 ms					
EFFICIENCY						
Max. efficiency	92%					
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 / USB / RS485 / dry contacts (standard), SNMP (optional)					
Display	LCD & LED					
Standards	EN61000-6-2, EN61000-6-4, EN61000-3-3, EN62040-1, EN62109-1, EN62109-2					
IP rating	IP 20					
Operating temperature	0°C ~ 40°C					
Relative humidity	10% ~ 90% (non-condensing)					
Altitude	2000 m (derating 1% for each additional 100 m)					
Noise level at 1 m	≤ 50 dB					
Dimensions (W × D × H) (mm)	265 × 560 × 725					
Packaged dimensions (W × D × H) (mm)	360 × 662 × 905					
Net weight (kg)	76	80	60	67	69	85
Gross weight (kg)	85	89	69	76	78	94

● All specifications are subject to change without notice.