



GROWATT

Grid-tie Inverters



Residential
2.5kW-5kW, 1pH



Commercial
5kW-30kW, 3pH



Large Scale Commercial
50kW-80kW, 3pH

Dayliff Growatt are transformerless inverters for the management of hybrid solar powered PV/AC mains power supply installations. The inverters convert the PV generated DC power to AC, either single or three-phase depending on model, and feed to the applied load prioritising the PV output, supplementing with AC mains power if there is insufficient PV generated output for the load. Inverters are fitted with MPPT trackers to optimise output efficiency. Both single-phase and three-phase units require an external power export limiting meter that monitors and prevents excess PV power being transmitted to the grid.

Growatts are designed to be connected in parallel each fed from dedicated solar arrays that can provide power outputs of limitless size. Additional Wi-fi connectivity is provided using SHINE WIFI device that enables remote monitoring and data transmission.

Particular features include:-

- LCD screen and LED status indicator display. 3 phase has multifunction buttons for ease of operation and maintenance
- RS232/WIFI/GPRS external remote monitoring options.
- Built in protection including DC reverse polarity, short circuit, output over current, over voltage, insulation resistance monitoring, residual current detection, surge protection, anti-island protection and over-temperature protection.

Dayliff Growatt are lightweight and compact in size with high overload capacity, high PV energy consumption efficiency, excellent thermal performance and low maintenance needs and are an ideal solution to the application of PV power generation for hybrid PV/mains supply power systems.

TECHNICAL SPECIFICATIONS

Model	DAYLIFF GROWATT 1PH INVERTERS		DAYLIFF GROWATT 3PH INVERTERS							
	GROWATT MIC 2500TL-X	GROWATT MIC 5000TL-XE	GROWATT MOD 5000TL3-X	GROWATT MOD 10KTL3-X	GROWATT MOD 15KTL3-X	GROWATT MID 20KTL3-X	GROWATT MID 30KTL3-X	GROWATT MAX 50KTL3-LV	GROWATT MAX 80KTL3-LV	
Max. Output & Rated Output Power, W	2,500	5,000	5,000	10,000	15,000	20,000	30,000	50,000	80,000	
Nominal AC Voltage, VAC	240		415							
Max. PV Input Power, W	3,500	7,000	7,500	15,000	22,500	30,000	45,000	75,000	120,000	
Max. PV Array Open Circuit Voltage, VDC	550		1,100							
Nominal Voltage VDC	360		580				600	585	600	
PV Array MPPT Voltage Range (VDC)	65-550	80-550	140-1,000			160-1,000	200-1,000			
Start Voltage (VDC)	80	100	160			250				
No. of MPPT Inputs	1	2			3		6	7		
No. of strings per MPPT input	1		1/2		2					
Max. Input Current (DC) per MPPT, A	13	13.5	13		13/26	27	26			
Max. Output Current (AC), A	12	23	8	17	25	32	51	81	129	
Rated Output Voltage (VAC)	230		400							
Output Voltage Range (VAC)	180-280		340-440							
Peak Efficiency (%)	97	98				99				
Dimensions (DxWxH)mm	274x254x138	375x350x160	425x387x147	425x387x178		525x395x222	580x435x230	860x600x300		
Net Weight (kgs)	6	11	13	14	16	23	30	82	86	