

UPDATED



SUNGRID
Grid-tie Inverters



1 Phase Sungrid Inverters



3 Phase Sungrid Inverters

Dayliff SUNGRID 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 and single-phase units are fitted with an inbuilt export limit function that prevents excess PV power being transmitted to the grid. Three phase units require an external controller.

SUNGRIDs are designed to be connected in parallel each fed from dedicated solar arrays that can provide power outputs of limitless size. Wi-fi connectivity is provided 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 SUNGRID 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 supply systems.

TECHNICAL SPECIFICATIONS

Model	SUNGRID 1PH INVERTERS		SUNGRID 3PH INVERTERS					
	SUNGRID 3000M	SUNGRID 5000M	SUNGRID 5000T	SUNGRID 8000T	SUNGRID 10000T	SUNGRID 15000T	SUNGRID 20000T	SUNGRID 30000T
Max. Output & Rated Output Power (VA/W)								
Input AC Voltage (VAC)	240		415					
Max. PV Input Power (W)	3900	6500	6500	9600	12000	18000	24000	36000
Max. PV Array Open Circuit Voltage	500		900	1000				
PV Array MPPT Voltage Range (VDC)	100-500		200-850	200-960				
Start Voltage (VDC)	150		200					
No. of MPPT Inputs	1		2					3
Max. Input Current (A)	12.5	25	2x13			2x25		3x25
Rated Output Current (A)	13	21.5	7.2	11.6	14.4	21.7	28.9	43.3
Max. Output Current (A)	15	25	7.9	12.7	15.8	23.9	31.8	47.6
Rated Output Voltage (VAC)	230		400					
Output Voltage Range (VAC)	170-280		323-480					
	97.6		98.1			98.2		
Dimensions (DxWxH)mm	350x160x350	350x160x390	355x190x450			410x210x528		476x258x653.5
Net Weight (kgs)	12	14.5	18			26	28	44