



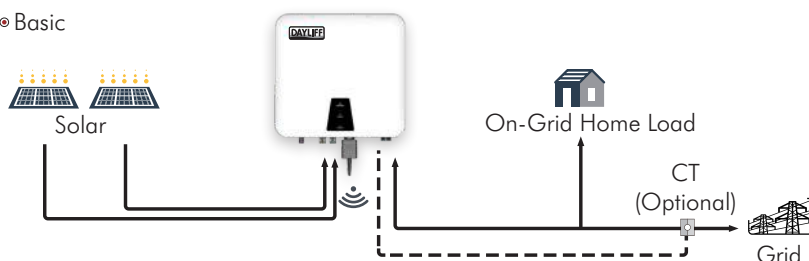
ULTRAVERTER

Grid Tie Inverters



Solar System Connection

• Basic



Dayliff Ultraverter Grid-Tie Inverters are advanced transformerless inverters engineered for efficient management of hybrid solar PV and AC mains power systems. These inverters convert DC power generated by photovoltaic (PV) modules into AC power—either single-phase or three-phase, depending on the model—prioritizing PV generation and supplementing grid power when solar output is insufficient. Each inverter is equipped with Maximum Power Point Tracking (MPPT) technology to maximize energy harvest and ensure optimal performance under varying solar conditions. To comply with grid regulations, all models require connection to an external power export limiting meter, which actively monitors and restricts any excess power from being fed back into the grid.

Ultraverter inverters are designed for scalable installations, allowing multiple units to operate in parallel, each powered by independent solar arrays to support systems of virtually unlimited capacity. Remote monitoring and control are facilitated enabling real-time performance tracking and diagnostics. Particular features include:-

- LCD screen and LED status indicators; includes multifunction navigation buttons for simplified operation and maintenance
- Multiple communication interfaces: RS485, Wi-Fi and GPRS for flexible remote monitoring
- Comprehensive built-in protections: DC reverse polarity, short circuit, output overcurrent, overvoltage, insulation resistance monitoring, residual current detection, surge protection, anti-islanding, and over-temperature protection
- Fanless design for silent operation
- IP66-rated enclosure for superior water and dust ingress protection
- Lightweight and compact

Dayliff Ultraverter Inverters offer high overload tolerance, excellent thermal management, superior PV utilization efficiency, and minimal maintenance requirements and are an ideal solution to the application of PV power generation for hybrid PV/mains supply power .

TECHNICAL SPECIFICATIONS

Enclosure Class: IP66

Operating Temp Range: -25°C to +60°C

MODEL	1 PHASE	3 PHASE				
	DUG -50M	DUG-50T	DUG-100T	DUG-150T	DUG-200T	DUG-250T
Max. Output & Rated Output Power,W	5,000	5,000	10,000	15,000	20,000	25,000
Nominal AC Voltage, VAC	1x240	3x415				
Maximum PV Input Power, W	6,000	6,000	12,000	18,000	24,000	30,000
Maximum PV Array Open Circuit Voltage, VDC	660	1,000			1,100	
Nominal Voltage, VDC	360	600				
PV Array MPPT Voltage Range, VDC	40-550	200-1000				
Start Voltage, VDC	50	160			250	
Number of MPPT Inputs	2					
Number of Strings per MPPT Input	1				2	
Max. Input Current (DC) per MPPT, A	16/16	12/12		21/11	26/39	
Max. Output Current (AC), A	23.9	8	15.9	23.8	31.8	39
Rated Output Voltage, Vac	230	400				
Output Voltage Range, Vac	180-280	320-478				
Peak Efficiency, %	99.5	98.4			98	98.3
Dimensions (DxWxH),mm	400x378x195	540x426x219			540x426x234	
Weight (kgs)	15.5	21	23.2	27	28.6	