NEW PRODUCT

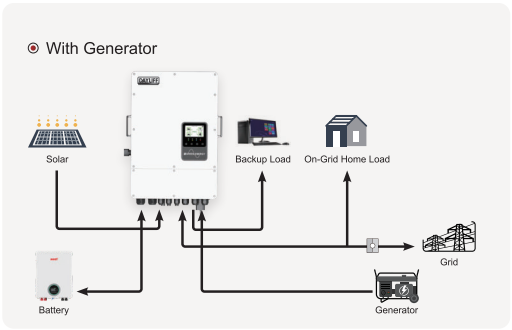
DAYLIFF

ULTRAVERTER LV

On/Off Grid Hybrid Inverter

5kW - 1 Phase

8kW-15kW- 1/3 Phase



The Ultraverter LV On/Off Grid Low Voltage Hybrid Inverter is a cutting-edge hybrid solution engineered for both on-grid and off-grid solar applications. Operating on a safe low-voltage 48V battery system, it combines safety, reliability, and high performance in a compact design with superior power density. Its support for a solar PV/Inverter 1.3 DC/AC ratio offers greater system flexibility while optimizing investment.

Designed for versatility, the Ultraverter enables unbalanced three-phase output and is ideal for residential, commercial, and industrial installations. It features multiple communication ports—including dual CAN ports for BMS and parallel connections, RS485 for BMS, RS232 for remote control, and a DRM port—ensuring seamless system integration and intelligent control. Key Features:

- True 1/3-Phase Flexibility: 100% unbalanced output with each phase delivering up to 50% of rated power
- Scalable Design: Parallel connection up to 6 units for 3 phase and 16 units for 1 phase >8kW for both on-grid and off-grid operation
- AC Coupling Ready: Ideal for retrofitting into existing solar power systems
- Battery Flexibility: Supports multiple battery units in parallel
- High Power Handling: Charging/discharging Diesel Generator Integration and supports energy storage from genset sources
- Safety First: 48V low voltage battery system with transformer isolation for enhanced protection
- All-Weather Ready: IP66-rated for full water and dust resistance
- Smart Energy Scheduling: "Time of Use" function with up to 6 programmable time segments
- Remote Monitoring: Built-in Wi-Fi for real-time monitoring and control
- The 5kW single phase unit features a fanless, low noise design for quiet operation

Technical Specifications

MODEL	SINGLE PHASE LV HYBRID INVERTERS				THREE PHASE LV HYBRID INVERTERS		
	DUV-5048S	DUV-8048S	DUV-10048S	DUV-12048S	DUV-8048T	DUV-12048T	DUV-15048T
Rated Output Power, W	5,000	8,000	10,000	12,000	8,000	12,000	15,000
Input/Output AC Voltage, VAC	1x240				3x415		
Maximum PV Input Power, W	6,500	10,400	13,000	15,600	6,500	10,400	13,000
Rated PV Input Voltage, V	370				550		
Start Up Voltage, V	125						
Minimum Voltage for Grid Connect, V	200				310		
Maximum PV Input Current, A	15	20	26		15	30	32
Number of MPP Trackers	2		3		2		3
Maximum PV Array Open Circuit Voltage, VDC	500						
PV Array MPPT Voltage Range, VDC	120-500	150-425			120-500	150-425	
Maximum AC Output Current, A	22.7	38.3	43.5	52.2	17.4	26.1	32.5
Maximum Charging/Discharging Current, A	190			240		300	
Nominal Battery Voltage, VDC	40-60						
Maximum Peak Efficiency, %	97.1	97.6					
Parallel Capability	No	Yes, up to16 units			Yes, up to 6 units		
Dimensions (DxWxH)m	420x480x215	426x526x255	446x576x254		446x656x285		446x692x260
Weight, Kgs	30	31			35	38	