UNO HYBRID N PRO SERIES SINGLE PHASE INVERTER

TOMMATECH GmbH
GERMAN-based company



Single Phase Hybrid Inverter

Uno Hybrid N Pro Series
7 / 7.6 / 8 / 10 / 12

Simple. Reliable. Efficient.

- High Efficiency
- AC Coupling
- Wide Voltage Range
- Up to 16 Parallel Units
- 250A Max. Charge/Discharge Current
- IP65 Protection



7.0kW 7.6kW

UNO-HYB-LV-N7K-6/ UNO-HYB-LV-N7.6K-6/ UNO-HYB-LV-N8K-6
UNO-HYB-LV-N10K-6/ UNO-HYB-LV-N12K-6

The Uno Hybrid N Pro Series is a flexible, high-performance single-phase low-voltage hybrid inverter solution designed for both new installations and the retrofit of existing solar energy systems. With an IP65 protection rating, it provides reliable performance under a wide range of environmental conditions.
The inverter supports AC coupling for seamless integration into existing solar systems and enables up to 16 units to operate in parallel for both on-grid and off-grid applications. Supporting multiple batteries in parallel and offering a maximum charging/discharging current of 250A, it provides powerful and efficient energy management.
Additionally, the Uno Hybrid N Pro Series supports energy storage from diesel generators, making it an ideal solution for hybrid energy systems requiring flexibility, reliability, and high performance.

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PV String Input Data	UNO-HYB-LV-N7K-6	UNO-HYB-LV-N7.6K-6	UNO-HYB-LV-N8K-6	UNO-HYB-LV-N10K-6	UNO-HYB-LV-N12K-6
Max. PV access power (W)	1400	15200	16000	20000	24000
Max. PV Input Power (W)	11200	12160	12800	16000	19200
Max. PV Input Voltage (V)	500				
Start-up Voltage (V)	125				
MPPT Voltage Range (V)	150-425				
Rated PV Input Voltage (V)	370				
Max. Operating PV Input Current (A)	36+18+18				36+36+18
Max. Input Short-Circuit Current (A)	54+27+27				54+54+27
No. of MPPT Trackers/ No. of Strings MPPT Tracker	3/2+1+1				3/2+2+1
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	7000	7600	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	7700	8360	8800	11000	13200
Rated AC Input/Output Current (A)	31.9/30.5	34.6/33.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC Input/Output Current (A)	35.0/33.5	38/36.4	40/38.3	50/47.9	60/57.4
Max. Continuous Passthrough (grid to load) (A)	65				70
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE				
Rated Input/Output Grid Frequency/Range (Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging/Discharging Current (A)	175	185	185	220	250
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
Communication Interface	WIFI, RS485, CAN				
LCD/LED Display	LCD				
General Data					
Operating Temperature Range (°C)	-40 to +60°C , >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	<45				
Ingress Protection (IP) Rating	IP 65				
Inverter Topology	Non-Isolated (solar), Isolated (battery)				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	340x580x234 (Excluding Connectors and Brackets)				
Weight (kg)	24.6			24.9	
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years				
Grid Regulation	IEC 61727, IEC 62116, EN 50549, VDE-AR-4105				
Safety / EMC Standard	EN IEC 61000-6-1/2/3/4, EN IEC 62109-1, IEC/EN 62109-2				

* TommaTech GmbH reserves the right to change the specifications of the products without prior notice.

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