



Single Phase Hybrid Inverter
Uno Hybrid N Serie
3.0 / 3.6 / 5.0 / 6.0

Simple. Reliable. Efficient..



High
Efficiency



AC
Coupling



Wide Voltage
Range



Up to 16
Parallel Units

135A

135A Charge/
Discharge



IP65
Protection

3-4kW

3.6-4kW



Uno-Hybrid-LV-N-3-4/ Uno-Hybrid- LV-N-3.6-4 Uno-Hybrid- LV-N-5-4/ Uno-Hybrid- LV-N-6-4

The Uno Hybrid N Series is a flexible, high-performance low-voltage hybrid inverter solution designed for both new installations and upgrades to existing solar energy systems. With an IP65 protection rating, it delivers reliable performance under a variety of environmental conditions.

The inverter supports AC coupling for retrofitting (integration into existing systems) and enables up to 16 units to operate in parallel in both grid-connected (on-grid) and off-grid scenarios.

With a maximum charge/discharge current of 135A and support for multiple battery configurations, it offers powerful and efficient energy management. Additionally, by enabling energy storage from diesel generators, it provides an ideal solution for hybrid energy systems requiring high reliability.

PV String Input Data	UNO-HYB-LV-N3K-4		UNO-HYB-LV-N3.6K-4		UNO-HYB-LV-N5K-4		UNO-HYB-LV-N6K-4	
Max. PV Access Power (W)	6000		7200		10000		12000	
Max. PV Input Power (W)	4800		5760		8000		9600	
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)	18				18+18			
Max. Input Short-Circuit Current (A)	27				27+27			
No. of MPP Trackers / No. of Strings MPP Tracker	1/1				2/1+1			
AC Input / Output Data								
Rated AC Input / Output Active Power (W)	3000		3600		5000		6000	
Max. AC Input / Output Apparent Power (VA)	3300		3960		5500		6600	
Rated AC Input / Output Current (A)	13.7/13.1		16.4/15.7		22.8/21.8		27.3/26.1	
Max. AC Input / Output Current (A)	15/14.4		18/17.3		25/24		30/28.7	
Max. Continuous AC Bypass Current (Grid to Load) (A)			35				40	
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 / Range (V)	220/230 0.85Un-1.1Un							
Rated Input / Output Grid Frequency / Range (Hz)	50/45-55, 60/55-65							
Grid Connection Type	L+N+PE							
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		40-60		40-60		40-60	
Max. Charge Current (A)	70		90		120		135	
Max. Discharge Current (A)	70		90		120		135	
Charging Strategy for Li-ion Battery	Self-adaption to BMS							
Number of Battery Inputs	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								
LCD/LED Display	RS485/RS232/CAN							
Communication Interface	GPRS/WIFI/Bluetooth/4G/LAN (Optional)							
General Data								
Operating Temperature Range (°C)	-40 to +60 °C , >45 °C Derating							
Permissible Ambient Humidity	0-100%							
Permissible Altitude	2000m							
Noise (dB)	<30							
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)	376x470x241.5 (Excluding Connectors and Brackets)							
Weight (kg)	17.6				19			
Type of Cooling	Natural Cooling							
Warranty	5 Years							
Grid Regulation	IEC 61727, IEC 62116, EN 50549							
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							