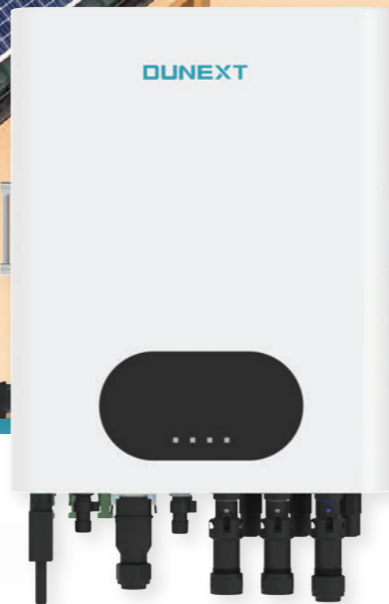


Single Phase Low Voltage Hybrid Inverter



DN1H-L1 Series(8-12KTL)

- Fast 230A Charging
- Compatible with lead-acid and lithium batteries
- Low Voltage Wake-up(100V)
- Remote firmware upgrade
- IP66 outdoor design
- 200% Overload Tolerance

Single Phase Low Voltage Hybrid Inverter

DUNEXT

Model	DN1H-8KTL-L1	DN1H-10KTL-L1	DN1H-12KTL-L1
		PV Input	
Max. Recommended PV Power [Wp]	12000	15000	18000
Max. PV Input Voltage [V]		500	
Rated PV Input Voltage [V]		370	
Start-up Voltage [V]		100	
MPPT Voltage Range [V]		100-425	
No. of MPP Trackers		3	
No. of Input Strings per Tracker		2/1/1	
Max Input Current per MPPT [A]		28/16/16	
Max. Short Circuit Current per MPPT [A]		44/25/25	
		AC Output (On-Grid)	
Rated AC Power [W]	8000	10000	12000
Rated AC Current [A]	34.8	43.5	52.2
Max Apparent Power [VA]	8800	11000	13200
Max AC Current [A]	40	50	60
Rated AC Voltage [V]		L/N/PE, 230	
Output THDi [@Rated Output]		< 3%	
Adjustable Power Factor [cos φ]		0.8 leading ... 0.8 lagging	
		AC Input	
Grid Frequency [Hz]		50	
Max Apparent AC Power [VA]	12000	15000	18000
Max Input Current [A]	52.2	65.2	78.3
		AC Output (Off-Grid)	
Rated AC Power [W]	8000	10000	12000
Rated Current [A]	34.8	43.5	52.2
Rated Frequency [Hz]		50	
Overload Capability		110%, continuous; 200%, 10s	
Automatic Switch Time [ms]		≤10	
Output THDv [@Rated Output]		< 3%	
		Battery	
Battery Type		Lithium-ion & Lead-acid	
Rated Battery Voltage [V]		48	
Battery Voltage Range [V]		40-60	
Max. Charge/Discharge Current [A]		200/200	
Forced Wake-up by PV		Yes	
		Efficiency	
Max. Efficiency		97.8%	
European Efficiency		96.5%	
MPPT Efficiency		99.9%	
		Protection	
Integrated		DC Reverse Polarity Protection, DC Insulation Monitoring, Ground Fault Monitoring, Over Current Protection, Over Voltage Protection	
Surge Protection		DC Type II / AC Type II	
Over Voltage Category		DC Type II / AC Type III	
AFCI		Optional	
		General Data	
Operating Temperature [°C]		-25 ~ +60	
Dimensions [W*H*D] [mm]		450*570*268	
Weight [kg]		39	
Topology		Transformerless	
Cooling		Smart Cooling	
Operating Altitude [m]		≤3000	
Protection Level		IP66	
Communication		RS485, WiFi/GPRS, CAN2.0	
Warranty		5 Years (Standard) / 10 Years (Optional)	
Max. No. of Parallel Units		6	
		Certifications & Standards	
Grid Standards		VDE-AR-N 4105, VDE V 0126-1-1, CEI 0-21, G98/G99, EN 50438/EN50549, NRS 097	
Safety Standards		IEC/EN 62109-1, IEC/EN 62109-2	
EMC Standards		EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN 61000-3-12:2011, EN IEC 61000-3-11:2019	