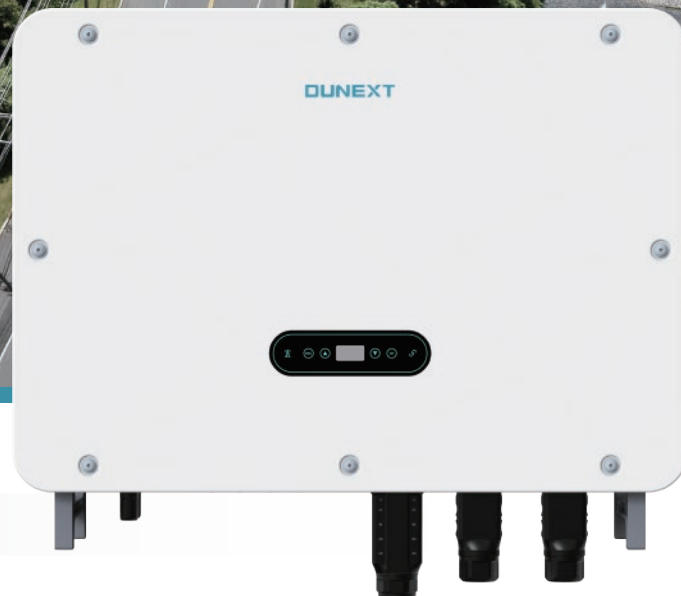


THREE PHASE HYBRID INVERTER



DN3H-H3 Series (25-50K)

-  150A high charge/discharge current
-  Support 100% unbalanced loads
-  150-940V wide battery voltage range
-  20A PV input current per string, 4 MPP trackers
-  Max. 10 pcs parallel operation
-  Support diesel generators for diverse energy sourcing

Three Phase Hybrid Inverter



Model	DN3H-25K-H3	DN3H-30K-H3	DN3H-40K-H3	DN3H-50K-H3
PV Input				
Max. Recommended PV Power [Wp]	50000	60000	80000	100000
Max. PV Input Voltage [V] ^[1]	1000	1000	1000	1000
Rated PV Input Voltage [V]	620	620	620	620
Start-Up Voltage [V]	135	135	135	135
No. of MPP Trackers	4	4	4	4
No. of Input Strings per Tracker	2	2	2	2
Operating Voltage Range [V] ^[1]	200 – 950	200 – 950	200 – 950	200 – 950
Max. Input Current per MPPT [A]	40	40	40	40
Max. Short-Circuit Current per MPPT [A]	50	50	50	50
AC Input / Output (On-Grid)				
Rated AC Output Power [W]	25000	30000	40000	50000
Max. Output Apparent Power [VA]	25000	30000	40000	50000
Rated AC Voltage [V]	3L / N / PE; 220 / 380; 230 / 400			
Rated Frequency [Hz]	50 / 60			
Rated Output Current [A]	37.9 / 36.2 / 34.7	45.5 / 43.5 / 41.7	60.6 / 58 / 55.6	75.8 / 72.5 / 69.4
Max. Output Current [A]	37.9	45.5	60.6	75.8
Adjustable Power Factor [cos φ]	0.8 Leading ... 0.8 Lagging			
Output THDi [@Rated Output]	< 3%			
Max. Input Apparent Power [VA] ^[2]	50000	60000	80000	80000
Max. Input Current [A]	75.8	90.9	121.2	121.2
AC Output (Off-Grid)				
Rated AC Power [W]	25000	30000	40000	50000
Rated Output Current [A]	37.9 / 36.2 / 34.7	45.5 / 43.5 / 41.7	60.6 / 58 / 55.6	75.8 / 72.5 / 69.4
Rated AC Voltage [V]	3L / N / PE; 220 / 380; 230 / 400			
Rated Frequency [Hz]	50 / 60			
Automatic Switch Time [ms]	< 10			
Peak Output Apparent Power [VA]	1.5 Times Of Rated Output Power,10s			
Output THDv	< 3%@Linear Load			
Generator Input				
Max. Input Apparent Power [VA]	25000	30000	40000	50000
Rated AC Voltage [V]	3L / N / PE; 220 / 380; 230 / 400			
Rated AC Frequency [Hz]	50 / 60			
Max. Input Current [A]	37.9	45.5	60.6	75.8
Battery				
Battery Type	Lithium (with BMS)			
Battery Voltage Range [V]	150 – 840			
Max. Charging / Discharging Current [A]	150 / 150			
Max. Charge / Discharge Power [W]	25000 / 25000	30000 / 30000	40000 / 40000	50000 / 50000
Efficiency				
Max. Efficiency	97.8%			
European Efficiency	97.2%			
Protection				
DC Reverse Polarity Protection	Yes			
Battery Input Reverse Connection Protection	Yes			
Insulation Resistance Protection	Yes			
Surge Protection	DC Type II / AC Type II			
Over-Temperature Protection	Yes			
Residual Current Protection	Yes			
Anti-Islanding Protection	Yes			
AC Over-Voltage Protection	Yes			
Overload Protection	Yes			
AC Short-Circuit Protection	Yes			
General Data				
Dimension [W * H * D] [mm]	919 * 739 * 305			
Weight [kg]	89			
Over Voltage Category	PV+Battery: II; Mains: III			
Operating Temperature [°C]	-30 ~ 60			
Operating Altitude [m]	3000			
Relative Humidity [%]	0 ~ 100			
Topology	Transformerless			
Cooling	Fan			
Degree of Protection	IP66			
Standby Self-Consumption [W]	< 40			
Noise Level [dB] ^[1]	< 65			
Display	OLED & LED			
Communication	CAN, RS485			
Certifications & Standards				
Grid Connection Standards	EN IEC 61000, EN IEC 62109, EN 50549-1, NC RfG, G99, G100			

[1] PV Max. Input voltage is 950V, otherwise inverter will be waiting;

[2] Max apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery.