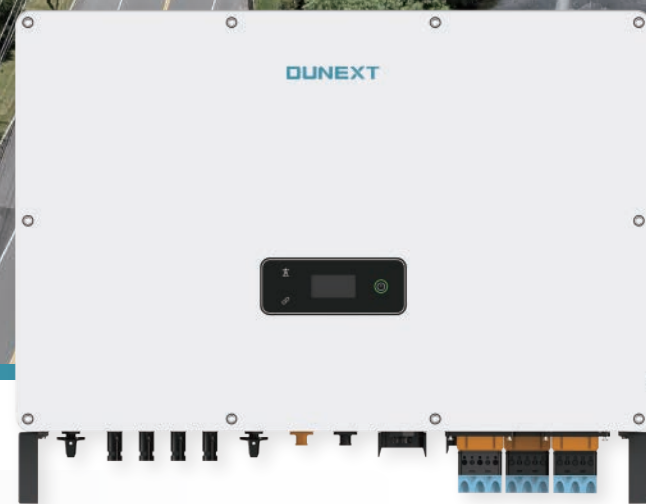


THREE PHASE HYBRID INVERTER



DN3H Series (25–50KTL)

-  100A high charge/discharge current support 1C solution
-  Low operating noise <50dB
-  Support 100% unbalanced loads
-  Low start-up voltage 135V for more generation time
-  Max. 120% back-up output overloading @60s
-  Support diesel generators for diverse energy sourcing

Three Phase Hybrid Inverter



Model	DN3H –25KTL–H2	DN3H –30KTL–H2	DN3H –36KTL	DN3H –40KTL	DN3H –50KTL
PV Input					
Max. Recommended PV Power [Wp]	37500	45000	54000	60000	75000
Max. PV Input Voltage [V] ^[1]	1000	1000	1000	1000	1000
Rated PV Input Voltage [V]	620	620	620	620	620
Start–Up Voltage [V]	135	135	135	135	135
No. of MPP Trackers	4	4	4	4	4
No. of Input Strings per Tracker	2	2	2	2	2
MPPT Voltage Range [V] ^[1]	200 – 850	200 – 850	200 – 850	200 – 850	200 – 850
Max. Input Current per MPPT [A]	30	30	30	30	30
Max. Short–Circuit Current per MPPT [A]	40	40	40	40	40
AC Input / Output (On–Grid)					
Rated AC Power [W]	25000	30000	36000	40000	50000
Max. Output Apparent Power [VA]	27500	33000	39600	44000	55000
Max. Input Apparent Power [VA] ^[2]	30000	36000	43500	48000	60000
Max. AC Current [A]	42	50	60	66	83
Rated AC Voltage [V]	3L / N / PE; 220 / 380; 230 / 400				
Rated Frequency [Hz]	50 / 60				
Output THDi [@Rated Output]	< 3%				
Adjustable Power Factor [cos φ]	0.8 leading ... 0.8 lagging				
DCI	< 0.5%In				
AC Output (Off–Grid)					
Rated AC Power [W]	25000	30000	36000	40000	50000
Max. Output Apparent Power [VA]	27500	33000	39600	44000	55000
Max. Output Current [A]	42	50	60	66	83
Rated AC Voltage [V]	3L / N / PE; 220 / 380; 230 / 400				
Rated Frequency [Hz]	50 / 60				
Automatic Switch Time [ms]	< 20				
Output THDv	< 3%@Linear Load				
Generator Input					
Max. Input Apparent Power [VA] ^[2]	30000	36000	43500	48000	60000
Max. Charging Power of Battery [W]	25000	30000	36000	40000	50000
Rated AC Voltage [V]	3L / N / PE; 220 / 380; 230 / 400				
Rated AC Frequency [Hz]	50 / 60				
Max. Input Current [A]	43.5	52.2	63	69.6	87.0
Battery					
Battery Type	Lithium (with BMS)				
Battery Voltage Range [V]	135 – 750				
Max. Charging / Discharging Current [A]	100 / 100				
Efficiency					
Max. Efficiency	98.8%				
European Efficiency	98.3%				
Protection					
DC Reverse Polarity Protection	Yes				
Battery Input Reverse Connection Protection	Yes				
Insulation Resistance Protection	Yes				
Surge Protection	Yes				
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]	800 * 620 * 300				
Weight [kg]	72				
Over Voltage Category	PV: II Main: III				
Operating Temperature [°C]	–30 ~ 60				
Operating Altitude [m]	3000 ^[3]				
Relative Humidity [%]	0 ~ 100				
Topology	Transformerless				
Cooling	Fan				
Degree of Protection	IP65				
Standby Self–Consumption [W]	< 15				
Noise Level [dB] ^[1]	< 50				
Display	OLED & LED				
Communication	CAN, RS485, WiFi / LAN (Optional)				
Certifications & Standards					
Grid Connection Standards	EN IEC 61000, EN IEC 62109, EN 50549–1, CEI–021, NC RfG				

[1] PV Max. Input voltage is 850V, otherwise inverter will be waiting

[2] Max. apparent power from the grid refers to the highest power imported from the utility grid, utilized for supporting backup loads and charging the battery

[3] The system will be derated when the altitude is above 3000m