

THREE PHASE HYBRID INVERTER

DN3H Series (5–10KTL)

- Compatible with 600W+ PV modules
- Support 100% unbalanced loads
- ≤10ms backup power switching

- Remote firmware upgrade & work mode setting
- Support VPP / FFR function
- Support up to 10 units parallel connections



Three Phase Hybrid Inverter

DN3H Series (5–10KTL)

Model	DN3H-5KTL	DN3H-6KTL	DN3H-8KTL	DN3H-10KTL-A	DN3H-10KTL
PV Input					
Max. Recommended PV Power [Wp]	7500	9000	12000	15000	15000
Max. PV Input Voltage [V]	1000				
MPPT Voltage Range [V]	160 ~ 950				
Rated PV Input Voltage [V]	600				
Start-Up Voltage [V]	160				
No. of MPP Trackers	2				
No. of Input Strings per Tracker	1				
Max. Input Current per MPPT [A]	18 / 18				
Max. Short-Circuit Current per MPPT [A]	23 / 23				
DC Switch	Integrated				
AC Output (On-Grid)					
Max. Apparent Power [VA]	5500	6600	8800	10000	11000
Rated AC Power [W]	5000	6000	8000	10000	10000
Rated AC Current [A]	7.2	8.7	11.5	14.4	14.4
Max. AC Current [A]	7.6	9.1	12.2	14.4	15.2
Rated AC Voltage [V]	3 / N / PE, 220 / 380, 230 / 400				
Grid Frequency [Hz]	50 / 60				
Adjustable Power Factor [cos φ]	0.8 leading ... 0.8 lagging				
Output THDi [@Rated Output]	< 3%				
AC Input					
Max. Apparent AC Power [VA]	10000	12000	16000	20000	20000
Max. AC Current [A]	15.2	18.2	24.3	28.8	30.4
Rated AC Voltage / Range [V]	3 / N / PE, 220 / 380, 230 / 400; ± 20%				
Grid Frequency / Range [Hz]	50 / 60				
Battery					
Battery Type	Lithium				
Battery Voltage Range [V]	160 ~ 700				
Max. Charging / Discharging Current [A]	30 / 30				
Communication Interface	CAN				
AC Output (EPS ^[1] With Battery)					
Rated AC Power [W]	5000	6000	8000	10000	10000
Rated AC Voltage [V]	3 / N / PE, 220 / 380, 230 / 400				
Rated Frequency [Hz]	50 / 60				
Rated Current [A]	7.6	9.1	12.2	14.4	15.2
Output THDi [@Rated Output]	< 3%				
Automatic Switch Time [ms]	≤ 20				
Peak Apparent Power, Duration [VA, s]	7500, 60	9000, 60	12000, 60	15000, 60	15000, 60
Efficiency					
Max. Efficiency	98.0%	98.0%	98.0%	98.0%	98.0%
European Efficiency	97.7%	97.7%	97.7%	97.7%	97.7%
Protection					
DC Insulation Monitoring	Yes				
DC Reverse Polarity Protection	Yes				
Anti-Islanding Protection	Yes				
Residual Current Monitoring	Yes				
Over-Heat Protection	Yes				
AC Overcurrent Protection	Yes				
AC Short-Circuit Protection	Yes				
DC Surge Protection	Yes (Type II)				
AC Surge Protection	Yes (Type II)				
AC Overvoltage Protection	Yes				
General Data					
Dimension [W * H * D] [mm]	520 * 412 * 186				
Weight [kg]	27				
Display	LED + OLED				
Communication	RS485 and USB (Standard), Wifi or 4G or Ethernet(Optional)				
Ambient Temperature Range [°C]	-25 ~ +60				
Relative Humidity	0 ~ 100%				
Operating Altitude [m]	≤ 2000				
Standby Self Consumption [W]	< 15				
Topology	Transformerless				
Cooling	Natural				
Degree of Protection	IP65				
Noise [dB]	< 35				
Certifications & Standards					
Grid Connection Standards	VDE-AR-N 4105, EN 50549-1, VDE 0126, CEI 0-21, EN 50549-GR, ÖVE / ÖNORM E 8001-4-712, AS 4777, UNE 217002, G99				
Safety Regulation	IEC 62109-1, IEC 62109-2				
EMC	EN / IEC 61000-6-1, EN / IEC 61000-6-3				

[1] EPS: Emergency Power Supply