






THREE PHASE HYBRID INVERTER



DN3H Series(15-30KTL)

-  Compatible with high current PV modules
-  Optional AFCI & RSD function
-  Support 100% unbalanced loads
-  Support up to 5 units parallel connections
-  Remote firmware upgrade & work mode setting

Three Phase Hybrid Inverter

Model	DN3H-15KTL	DN3H-19.9KTL	DN3H-20KTL	DN3H-25KTL	DN3H-30KTL
PV Input					
Max. Recommended PV Power [Wp]	22500	30000	30000	37500	45000
Max. PV Input Voltage [V]	1000				
MPPT Voltage Range [V]	180 ~ 960				
Rated PV Input Voltage [V]	700				
Start-Up Voltage [V]	200				
No. of MPP Trackers	3				
No. of Input Strings per Tracker	2 / 2 / 2				
Max. Input Current per MPPT [A]	36 / 36 / 36				
Max. Short-Circuit Current per MPPT [A]	46 / 46 / 46				
DC Switch	Integrated				
AC Output (On-Grid)					
Max. Apparent Power [VA]	16500	19900	22000	27500	33000
Rated AC Power [W]	15000	19900	20000	25000	30000
Rated AC Current [A]	22.8	30.2	30.3	37.9	45.5
Max. AC Current [A]	25	30.2	33.4	41.7	50
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]	30000	40000	40000	41500	41500
Max. AC Current [A]	45.5	60.6	60.6	63.0	63.0
Rated AC Voltage / Range [V]	3 / N / PE, 220 / 380, 230 / 400				
Grid Frequency / Range [Hz]	50 / 60				
Battery					
Battery Type	Lithium				
Battery Voltage Range [V]	180 ~ 800				
Max. Charging / Discharging Current [A]	50 / 50				
Max. Charging / Discharging Power [W]	30000/15000	30000/19900	30000/20000	30000/25000	30000/30000
Communication Interface	CAN				
AC Output (With Battery)					
Rated AC Power [W]	15000	19900	20000	25000	30000
Rated AC Voltage [V]	3 / N / PE, 220 / 380, 230 / 400				
Rated Frequency [Hz]	50 / 60				
Rated Current [A]	22.8	30.2	30.3	37.9	45.5
Output THDi [@Rated Output]	< 3%				
Automatic Switch Time [ms]	< 10				
Peak Apparent Power, Duration [VA,s]	22500, 10	30000, 10	30000, 10	37500, 10	45000, 10
Efficiency					
Max. Efficiency	98.1%	98.1%	98.1%	98.1%	98.1%
European Efficiency	97.7%	97.7%	97.7%	97.7%	97.7%
Max. Battery Charge / Discharge Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%
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				
AC Overvoltage Protection	Yes				
DC Surge Protection	Integrated (Typell)				
AC Surge Protection	Integrated (Typell)				
RSD	Optional (With Optimizer)				
AFCI Protection	Optional				
General Data					
Dimension [W * H * D] [mm]	620 * 500 * 220				
Weight [kg]	48				
Display	LED+LCD				
Communication	RS485, USB Upgrade, 4xDI, 2xD0 WIFI or 4G or Ethernet (Optional)				
Ambient Temperature Range [°C]	-30 ~ +60				
Relative Humidity	0 ~ 100%				
Operating Altitude [m]	≤ 2000				
Night Self Consumption [W]	< 15				
Topology	Transformerless				
Cooling	Natural			Air cooling	
Degree of Protection	IP66				
Certifications & Standards					
EMC	N50549 IEC62116 IEC61727 EN50549-1-CZ, CE-EMC, CE-LVD				