







# THREE PHASE ON-GRID INVERTER



## DN3 Series(30-50KTL)

-  Compatible with 600W+ PV modules
-  150% DC input oversizing & 110% AC overloading
-  Remote firmware upgrade
-  Optional AFCI & Smart PID recovery function
-  Low start-up voltage at 200V
-  Type II SPD for both DC and AC

## Three Phase On-Grid Inverter

**DUNEXT**

Model	DN3-30KTL	DN3-36KTL	DN3-40KTL	DN3-50KTL
PV Input				
Max. Recommended PV Power [Wp]	45000	54000	60000	75000
Max. PV Input Voltage [V]	1100			
MPPT Voltage Range [V]	180 ~ 1000			
Rated Input Voltage [V]	600			
Start-up Voltage [V]	200			
No. of MPP Trackers	3	3	4	4
No. of Input Strings per Tracker	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2 / 2	2 / 2 / 2 / 2
Max. PV Input Current [A]	40 / 40 / 40	40 / 40 / 40	40 / 40 / 40 / 40	40 / 40 / 40 / 40
Max. Short-circuit Current per MPPT [A]	50 / 50 / 50	50 / 50 / 50	50 / 50 / 50 / 50	50 / 50 / 50 / 50
AC Output				
Rated AC Power [W]	30000	36000	40000	50000
Max. Apparent Power [VA]	33000	39600	44000	55000
Max. AC Current [A]	50	60	66.6	83.3
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%			
Efficiency				
Max. Efficiency	98.6%	98.7%	98.8%	98.8%
European Efficiency	97.8%	98.0%	98.0%	98.0%
Protection				
DC Insulation Monitoring	Yes			
Input Reverse Polarity Protection	Yes			
Anti-island Protection	Yes			
Residual Current Monitoring	Yes			
AC Overcurrent Protection	Yes			
AC Short-circuit Protection	Yes			
DC Surge Protection	Yes (Type II)			
AC Surge Protection	Yes (Type II)			
AFCI Protection	Optional			
PID function	Optional			
DC Switch	Yes			
General Data				
Dimension (W * H * D) [mm]	585 * 480 * 220			
Weight [kg]	37			
Display	LED + OLED			
Communication	RS485 and USB (Standard), Wifi (Standard), 4G or Ethernet (Optional)			
Ambient Temperature Range [°C]	-25~+60			
Relative Humidity	0 ~ 100%			
Operating Altitude [m]	≤ 2000			
Standby Self Consumption without PID [W]	< 1			
Topology	Transformerless			
Cooling	Air Cooling			
Degree of Protection	IP65			
Certifications & Standards				
Grid Regulation	NB/T32004,ORDINANCE140,VDE4105, VDE0126, VDE-AR-N 4105, UNE217002,EN 50549-1, EN 62920			
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	EN/IEC 61000-6-1, EN IEC 61000-6-4, EN/IEC 61000-6-3, EN IEC 61000-6-2, EN IEC 61000-3-11, EN 61000-3-12			