

SINGLE PHASE ON-GRID INVERTER



DN1 Series(8-10.5KTL)

-  Compatible with 500W+ PV modules
-  Built-in zero injection function
-  150% DC input oversizing
-  Type II SPD for both DC and AC
-  Remote firmware upgrade

Single Phase On-Grid Inverter

DUNEXT

Model	DN1-8KTL	DN1-10KTL	DN1-10.5KTL
		PV Input	
Max. Recommended PV Power [Wp]	12000	15000	16000
Max. PV Input Voltage [V]		600	
MPPT Voltage Range [V]		80 ~ 550	
Rated Input Voltage [V]		360	
Start-up Voltage [V]		100	
No. of MPP Trackers	2	2	2
No. of Input Strings per Tracker	2 / 2	2 / 2	2 / 2
Max. PV Input Current [A]	32 / 32	32 / 32	32 / 32
Max. Short-circuit Current per MPPT [A]	40 / 40	40 / 40	40 / 40
		AC Output	
Rated AC Power [W]	8000	10000	10500
Max. Apparent Power [VA]	8800	10000	10500
Max. AC Current [A]	40	45.5	45.5
Rated AC Voltage [V]		L / N / PE, 220 / 230	
Grid Frequency [Hz]		50 / 60	
Adjustable Power Factor [cos φ]		0.8 leading ... 0.8 lagging	
Output THDi (@Rated Output)		< 3%	
		Efficiency	
Max. Efficiency	98.1%	98.1%	98.1%
European Efficiency	97.5%	97.5%	97.5%
		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	
DC Switch		Optional	
		General Data	
Size (Width * Height * Depth) [mm]		428 * 385 * 185	
Weight [kg]		17	
Display		LED + OLED	
Communication		RS485 and USB (Standard), Wifi (Standard), 4G or Ethernet (Optional)	
Ambient Temperature Range [°C]		-30 ~ +60	
Relative Humidity		0 ~ 100%	
Operating Altitude [m]		≤ 2000	
Standby Self Consumption [W]		< 1	
Topology		Transformerless	
Cooling		Natural	
Degree of Protection		IP65	
Noise [dB]		< 25	
		Certifications & Standards	
Grid Regulation		VDE 0126-1-1, C10/11, G99, PEA, MEA, AS 4777, EN 50549, CEI 0-21, IEC 61727, IEC 62116, IEC 60068, IEC 61683, ABNT NBR 16150	
Safety Regulation		IEC 62109-1, IEC 62109-2	
EMC		EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12, EN 61000-6-2, EN 61000-6-3, IEC 61000-4-16, IEC 61000-4-18, IEC 61000-4-29	