

# SINGLE PHASE HYBRID INVERTER







**DUNEXT**

## Single Phase Hybrid Inverter

Model	DN1H-3KTL	DN1H-3.68KTL	DN1H-5KTL	DN1H-6KTL
PV Input				
Max. Recommended PV Power [Wp]	4500	5500	7500	9000
Max. PV Input Voltage [V]	600			
MPPT Voltage Range [V]	120 ~ 550			
Rated PV Input Voltage [V]	360			
Start-up Voltage [V]	150			
No. of MPPT Trackers	2			
No. of Input Strings per Tracker	1			
Max. Input Current per MPPT [A]	13.5 / 13.5			
Max. Short-circuit Current per MPPT [A]	17/17			
DC Switch	Integrated			
AC Output (On-Grid)				
Max. Apparent Power [VA]	3000	3680	5000[1]	6000
Rated AC Power [W]	3000	3680	5000[1]	6000
Rated AC Current [A]	13	16	21.7[1]	26.1
Rated AC Voltage [V]	220 / 230			
Grid Frequency [Hz]	50 / 60			
Adjustable Power Factor [cos φ]	0.8 leading ... 0.8 lagging			
Output THDi [@Rated Output]	< 2%			
Battery				
Battery Type	Lithium			
Battery Voltage Range [V]	80 ~ 450			
Max.Charging/Discharging Current[A]	25			
Communication Interface	CAN			
AC Output (EPS [2] With Battery)				
Rated AC Power [W]	3000	3680	5000	6000
Rated AC Voltage[V]	220/230			
Rated Frequency [Hz]	50 / 60			
Rated Current [A]	13	16	21.7	26.1
Output THDi (@Rated Output)	< 3%			
Automatic Switch Time [ms]	< 0.5			
Peak Apparent Power, Duration [VA, s]	4500, 10	5520, 10	7500, 10	9000, 10
Efficiency				
Max. Efficiency	97.4%	97.5%	97.5%	97.5%
European Efficiency	97.2%	97.2%	97.2%	97.2%
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 III)			
AC Surge Protection	Yes (Type III)			
AC Overvoltage Protection	Yes			
General Data				
Dimension (W * H * D) [mm]	520 * 412 * 172			
Weight [kg]	20			
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]	< 15			
Topology	Transformerless			
Cooling	Natural			
Degree of Protection	IP65			
Noise(dB)	< 35			
Certifications & Standards				
Grid connection standards	AS 4777, EN 50549-1, IEC 61727, CEI 0-21, IEC 62116, C10/C11, VDE0126,ORDINANCE 140			
Safety Regulation	IEC 62109-1,IEC 62109-2			
EMC	EN/IEC 61000-6-1,EN/IEC 61000-6-3			



### DN1H Series(3-6KTL)

-  150% DC input oversizing
-  Remote firmware upgrade & work mode setting
-  Up to 6000W charging / discharging
-  Support VPP / FFR function
-  Charging / discharging efficiency >97%
-  EU standard certified by TÜV Rheinland

[1] The AC output power for VDE-AR-N 4105, VDE 0126 and NRS 097-2-1 is limited to 4600VA&20A, for AS/ NZS 477.2 is limited to 4999VA &.21.7A.  
[2] EPS: Emergency Power Supply