



Innovate for a Green Future

2024



Location: Suzhou, China



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INNOVATE FOR A GREEN FUTURE



ABOUT DUNEXT

Dunext is a leading technology company dedicated to PV & energy storage industry, offering innovative solutions for distributed PV & storage solution. Our team has over a decade's experience of global market development and 15 years of expertise in key technological fields, including power electronics, digital technology, energy storage, and thermal design. Committed to core innovation and worldwide service capabilities, Dunext provides secure, reliable, one-stop solutions and services, aiming to become the premier partner in the new energy sector.

BUSINESS DEVELOPMENT LAYOUT



HQ

Suzhou, China

EMEA

UK / Netherland
Germany / Poland

Asia

Singapore
Pakistan

America

USA (TBE)
Brazil (TBE)

SINGLE PHASE HYBRID INVERTER



DN1H Series (3-6KTL)

- 150% DC input oversizing
- Up to 6000W charging / discharging
- Charging / discharging efficiency >97%

- Remote firmware upgrade & work mode setting
- Support VPP / FFR function
- EU standard certified by TÜV Rheinland

Single Phase Hybrid Inverter

DN1H Series (3-6KTL)

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			

[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

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)					
Maximum 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
Maximum 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/ONORM E 8001-4-712, AS 4777, UNE 217002				
Safety Regulation	IEC 62109-1, IEC 62109-2				
EMC	EN / IEC 61000-6-1, EN / IEC 61000-6-3				

[1] EPS: Emergency Power Supply

RESIDENTIAL STACKABLE ESS

PowerHome-H1(7.48-18.7kWh)

-  Modular & 'Plug & Play' design
-  Safety upgrade with world class LiFePO4 battery technology
-  Support up to 5 battery sets parallel connection
-  Remote firmware upgrade and online diagnosis
-  IP65 outdoor design
-  EU standard certified by TÜV Rheinland

Residential ESS

PowerHome-H1(7.48-18.7kWh)

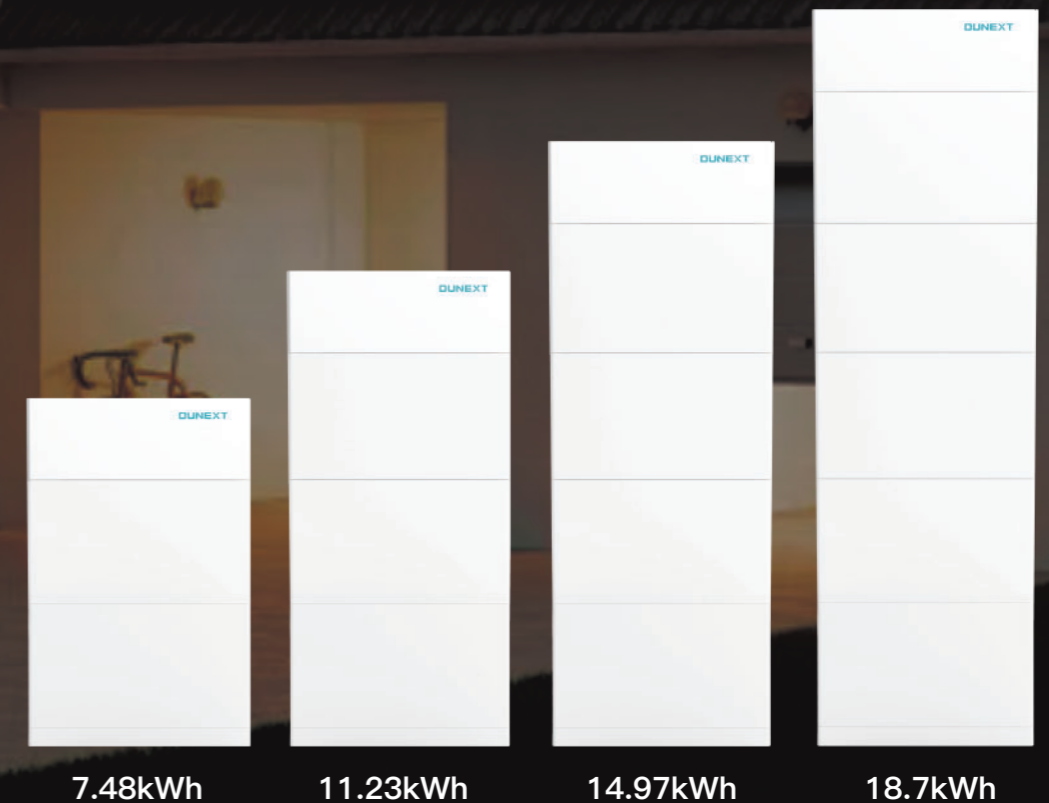
Model	PowerHome 7.48-H1	PowerHome 11.23-H1	PowerHome 14.97-H1	PowerHome 18.7-H1
Electrical Parameters				
Number of Modules	2	3	4	5
Nominal Energy ^[1] [kWh] Usable Capacity	7.48	11.23	14.97	18.7
Nominal Voltage [V]	192	288	384	480
Voltage Range [V]	162 ~ 216	243 ~ 324	324 ~ 432	405 ~ 540
Maximum Charge / Discharge Current ^[2] [A]	30 / 30			
Depth of Discharge	90%			
Cooling	Natural			
General Data				
Battery Technology	Lithium Iron Phosphate			
Size (Width * Height * Depth) [mm]	561 * 902 * 217	561 * 1228 * 217	561 * 1554 * 217	561 * 1880 * 217
Weight [kg]	86.8	124.1	161.4	198.7
Number of Battery Units	2	3	4	5
Enclosure	IP65 (Indoor or Outdoor)			
Installation Type	Floor Stand			
Operating Temperature Range ^[3] [°C]	-10 ~ +50			
Communication	CAN, RS485			
Cycle Life	6000@ 80% DOD / 25°C / 0.2C / 60% EOL			
Warranty ^[4] [years]	10			
Operating Altitude [m]	≤ 2000			
Certifications				
Certificates	UN38.3, EN / IEC 62619, IEC 62040, EN 62477, EN 61000-6-1 / -3			

[1] Nominal Energy: 100% DOD, 0.2C charge & discharge at +25°C (test conditions).

[2] The recommended charging and discharging current is 25 / 30A.

[3] Ambient temperature charging (0 ~ +40°C), discharging (-10 ~ +50°C).

[4] Conditions apply: refer to Dunext PowerHome Battery Warranty Policy.



Single Phase Low Voltage Hybird Inverter



DN1H-L1 Series (8-12KTL)

- Fast 230A Charging
- Compatible with lead-acid and lithium batteries
- Low Voltage Wake-up(100V)
- Remote firmware upgrade
- IP66 outdoor design
- 200% Overload Tolerance

Single Phase Low Voltage Hybird Inverter


DN1H-L1 Series (8-12KTL)


Model	DN1H-8KTL-L1	DN1H-10KTL-L1	DN1H-12KTL-L1
PV Input			
Max. Recommended PV Power [Wp]	12000	15000	18000
Max. PV Input Voltage [V]		500	
Rated PV Input Voltage [V]		370	
Start-up Voltage [V]		100	
MPPT Voltage Range [V]		100-425	
No. of MPP Trackers		3	
No. of Input Strings per Tracker		2/1/1	
Max Input Current per MPPT [A]		28/16/16	
Max. Short Circuit Current per MPPT [A]		44/25/25	
AC Output (On-Grid)			
Rated AC Power [W]	8000	10000	12000
Rated AC Current [A]	34.8	43.5	52.2
Max Apparent Power [VA]	8800	11000	13200
Max AC Current [A]	40	50	60
Rated AC Voltage [V]		L/N/PE, 230	
Output THDi [@Rated Output]		< 3%	
Adjustable Power Factor [cos φ]		0.8 leading ... 0.8 lagging	
AC Input			
Grid Frequency [Hz]		50	
Max Apparent AC Power [VA]	12000	15000	18000
Max Input Current [A]	52.2	65.2	78.3
AC Output (Off-Grid)			
Rated AC Power [W]	8000	10000	12000
Rated Current [A]	34.8	43.5	52.2
Rated Frequency [Hz]		50	
Overload Capability		110%, continuous; 200%, 10s	
Automatic Switch Time [ms]		≤10	
Output THDv [@Rated Output]		< 3%	
Battery			
Battery Type		Lithium-ion & Lead-acid	
Rated Battery Voltage [V]		48	
Battery Voltage Range [V]		40-60	
Max. Charge/Discharge Current [A]		200/200	
Forced Wake-up by PV		Yes	
Efficiency			
Max. Efficiency		97.8%	
European Efficiency		96.5%	
MPPT Efficiency		99.9%	
Protection			
Integrated		DC Reverse Polarity Protection, DC Insulation Monitoring, Ground Fault Monitoring, Over Current Protection, Over Voltage Protection	
Surge Protection		DC Type II / AC Type II	
Over Voltage Category		DC Type II / AC Type III	
AFCI		Optional	
General Data			
Operating Temperature [°C]		-25 ~ +60	
Dimensions [W*H*D] [mm]		450*570*268	
Weight [kg]		39	
Topology		Transformerless	
Cooling		Smart Cooling	
Operating Altitude [m]		≤3000	
Protection Level		IP66	
Communication		RS485, WiFi/GPRS, CAN2.0	
Warranty		5 Years (Standard) / 10 Years (Optional)	
Max. No. of Parallel Units		6	
Certifications & Standards			
Grid Standards	VDE-AR-N 4105, VDE V 0126-1-1, CEI 0-21, G98/G99, EN 50438/EN50549, NRS 097		
Safety Standards	IEC/EN 62109-1, IEC/EN 62109-2		
EMC Standards	EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN 61000-3-12:2011, EN IEC 61000-3-11:2019		


Residential Low Voltage ESS



PowerHome-2.4-L1

 Modular Design

 High Safety

 Easy Installation

 High flexibility, matching with leading inverters

Residential Low Voltage ESS

PowerHome-2.4-L1

Model	PowerHome-2.4-L1
	Electrical Parameters
Nominal Energy Usable Capacity[kWh]	2.4
Nominal Voltage [V]	48
Voltage Range [V]	42 ~ 54.75
Recommended Charge/Discharge Current [A]	25
Max. Power Charge/Discharge Current [A]	50
Peak Power Charge/Discharge Current [A]	55 (Protect)
Depth of Discharge	90%
	General Data
Battery Technology	LiFePO4
Dimensions (W*H*D) [mm]	480*405*90
Weight [kg]	22
No. of Modules in parallel	Up to 40 units in parallel
Degree of protection	IP20
Charging Temp. Range	0-55°C
Discharging Temp. Range	-20-55°C
Communication	CAN/RS485
	Certifications
Certifications	UN38.3/CE-EMC/IEC62619/IEC62040/CEC Accredited/CEI-021/UL1973/REACH/ROHS/UKCA/GOST-R


Residential Low Voltage ESS



PowerHome-5.12kWh-L1

 Modular Design

 High Safety

 Easy Installation

 High flexibility, matching with leading inverters

Residential Low Voltage ESS




PowerHome-5.12kWh-L1



Model	PowerHome-5.12-L1
Electrical Parameters	
Nominal Energy Usable Capacity [kWh]	5.12
Nominal Voltage [V]	51.2
Voltage Range [V]	44.8 ~ 57.6
Recommended Charge/Discharge Current [A]	50
Max. Power Charge/Discharge Current [A]	75
Peak Power Charge/Discharge Current [A]	100 (15s)
Depth of Discharge	95%
General Data	
Battery Technology	LiFePO4
Dimensions (W*H*D) [mm]	481*535*140
Weight [kg]	44
No. of Modules in parallel	up to 50 units in parallel
Degree of protection	IP20
Charging Temp. Range	0-55°C
Discharging Temp. Range	-20-55°C
Communication	CAN/RS485/RS232
Certifications	
Certifications	UN38.3/CE-EMC/IEC62619

Off-Grid All-in-one ESS



PowerIsland (2.4–4.8kWh)

-  All-in-one design
-  Dual MPPT design
-  LCD display

-  UPS level switching time < 20ms
-  2 Sockets Output

Off-Grid All-in-one ESS

PowerIsland (2.4–4.8kWh)

Model	P2.4–2.4kWh	P2.4–4.8kWh
	Battery	
Cell type	Li-Ion	
System capacity [kWh]	2.4	4.8
Rated Voltage [V]	48	
Max. AC Charging Power [W]	1200	1680
Max. AC Continuous Charging Current [A]	30	
Max. PV Charging Power [W]	1200	2400
Max. PV Continuous Charging Current [A]	50	
	PV Input	
Max. Input Power [W]	1200	2400
Max. Input Voltage [V]	65	
Max. Input Current [A]	28	
Number of PV input	4	
No. of MPP Trackers	2	
MPPT Range [V]	18–60	
	Off-Grid Output	
Nominal Output Voltage [V]	230	
Nominal Output Power [W]	2400	
Nominal Output Frequency [Hz]	50/60	
Max. Efficiency	92%	
THDi [@Rated Power]	< 3%	
	AC Input	
Input Voltage Range [V]	180–264	
Nominal AC Frequency [Hz]	50/60	
Max. AC Input Current [A]	10	
On-Grid to Off-Grid Switching Time [ms]	≤ 20	
Off-Grid to On-Grid Switching Time [ms]	≤ 10	
	Protection	
Over voltage Protection	Yes	
Short Circuit Protection	Yes	
Over temperature Protection	Yes	
	General Parameters	
Dimensions [W*H*D] [mm]	540*560*252	
Weight [kg]	43.5	65.5
Degree of protection	IP20	
Cooling method	Fan Cooling	
Display	LCD	
Communication	CAN	

SINGLE PHASE ON-GRID INVERTER



DN1 Series (3.68-6KTL)

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

Single Phase On-Grid Inverter



DN1 Series (3.68-6KTL)

Model	DN1-3.68KTL	DN1-4KTL	DN1-5KTL	DN1-6KTL
PV Input				
Max. Recommended PV Power [Wp]	5500	6000	7500	9000
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			
No. of Input Strings per Tracker	1 / 1			
Max. PV Input Current [A]	16 / 16			
Max. Short-circuit Current per MPPT [A]	20 / 20			
AC Output				
Rated AC Power [W]	3680	4000	5000	6000
Max. Apparent Power [VA]	3680	4400	5500	6000
Max. AC Current [A]	16	20	25	27.3
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	97.9%	97.9%	97.9%	97.9%
European Efficiency	97.2%	97.2%	97.2%	97.2%
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				
Dimension (W * H * D) [mm]	353 * 320 * 150			
Weight [kg]	10			
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 [W]	< 1			
Topology	Transformerless			
Cooling	Natural			
Degree of Protection	IP65			
Noise [dB]	< 25			
Certifications & Standards				
Grid Connection Standards	VDE 0126-1-1, ORDINANCE140, G99			
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	IEC 61000-6-1, IEC 61000-6-3			

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







DN1 Series (8-10.5KTL)

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		

THREE PHASE ON-GRID INVERTER



DN3 Series (4-12KTL)

-  Natural cooling for mute operation
-  Wider MPPT voltage range (140 ~ 1000V)
-  Remote firmware upgrade
-  IP65 outdoor design
-  150% DC input oversizing
-  Built-in zero injection function

Three Phase On-Grid Inverter







DN3 Series (4-12KTL)

Model	DN3-4KTL	DN3-5KTL	DN3-6KTL	DN3-8KTL	DN3-10KTL-A	DN3-10KTL	DN3-12KTL
PV Input							
Max. Recommended PV Power [Wp]	6000	7500	9000	12000	15000	15000	18000
Max. PV Input Voltage [V]	1100						
MPPT Voltage Range [V]	140 ~ 1000						
Rated Input Voltage [V]	600						
Start-up Voltage [V]	160						
No. of MPP Trackers	2						
No. of Input Strings per Tracker	1 / 1						
Max. PV Input Current [A]	16 / 16						
Max. Short-circuit Current per MPPT [A]	20 / 20						
AC Output							
Rated AC Power [W]	4000	5000	6000	8000	10000	10000	12000
Max. Apparent Power [VA]	4400	5500	6600	8800	10000	11000	13200
Max. AC Current [A]	6.7	8.4	10	13.4	15.2	16.7	20
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	98.4%	98.4%	98.4%	98.5%	98.5%	98.5%	98.5%
European Efficiency	97.5%	97.5%	97.5%	98.0%	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]	428 * 385 * 185						
Weight [kg]	15						
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 [W]	< 1						
Topology	Transformerless						
Cooling	Natural						
Degree of Protection	IP65						
Noise [dB]	< 35						
Certifications & Standards							
Grid Regulation	NB/T32004-2018, EN 50549-1, IEC 61727, IEC 62116						
Safety Regulation	IEC 62109-1, IEC 62109-2						
EMC	EN/IEC 61000-6-1, EN/IEC 61000-6-3						

THREE PHASE ON-GRID INVERTER



DN3 Series (15–25KTL)

-  Compatible with 600W+ PV modules
-  Wider MPPT voltage range (180 ~ 1000V)
-  Maximum DC input voltage 1100V
-  Remote firmware upgrade
-  150% DC input oversizing
-  Built-in zero injection function

Three Phase On-Grid Inverter







DN3 Series (15–25KTL)

Model	DN3-15KTL	DN3-17KTL	DN3-20KTL	DN3-25KTL
PV Input				
Max. Recommended PV Power [Wp]	22500	22500	30000	37500
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	2			
No. of Input Strings per Tracker	2 / 2			
Max. PV Input Current [A]	40 / 40			
Max. Short-circuit Current per MPPT [A]	50 / 50			
AC Output				
Rated AC Power [W]	15000	17000	20000	25000
Max. Apparent Power [VA]	16500	18700	22000	27500
Max. AC Current [A]	25	28.3	33.4	41.7
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%	98.6%	98.6%	98.6%
European Efficiency	98.2%	98.2%	98.2%	98.2%
Protection				
DC Insulation Monitoring	Yes			
Input Reverse Polarity Protection	Yes			
Anti-island Protection	Yes			
PID recovery function	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]	520 * 412 * 200			
Weight [kg]	22			
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 [W]	< 1			
Topology	Transformerless			
Cooling	Air Cooling			
Degree of Protection	IP65			
Noise [dB]	< 45			
Certifications & Standards				
Grid Regulation	NB / T 32004-2018, ABNT NBR 16149, ABNT NBR 16150, ABNT NBR 62116, EN 50549-1, IEC 61727, IEC 62116, ORDINANCE No.140, IEC 62891			
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	EN 61000-1, EN 61000-2, EN 61000-3, EN 61000-4			

THREE PHASE ON-GRID INVERTER



DN3 Series (30-50KTL)

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

Three Phase On-Grid Inverter

DN3 Series (30-50KTL)

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			

POWERHILL (143kWh–215kWh)



Integrated Outdoor Battery Energy Storage Cabinet

PowerHill (143kWh–215kWh)

Model	PowerHill P30-143kWh	PowerHill P30-179kWh	PowerHill P60-143kWh	PowerHill P60-161kWh	PowerHill P60-179kWh	PowerHill P60-215kWh	PowerHill P100-215kWh
Battery							
Cell Type	LiFePO4-280Ah						
Pack Configuration	IP20S						
Battery Capacity	143.36	179.2	143.36	161.2	179.2	215.04	215.04
AC Output							
Connection Type	3P4W						
Charging / Discharging Power [kW]	30		60		100		
Rated Grid Voltage [V]	220/380;230/400						
Frequency [Hz]	50/60						
Rated AC Output Current [A]	43		86		144		
Adjustable Power Factor Range	0.8 (Leading) ... 0.8 (Lagging)						
Harmonics	≤ 3% (Rated) THD						
Backup Output (Off Grid)							
Connection Type	3P4W						
Rated Output Power [kW]	30		60		100		
Rated Output Voltage [V]	220/380;230/400						
Output Frequency [Hz]	50/60						
Rated Current [A]	43		86		144		
Frequency Accuracy	0.2Hz						
General Parameters							
Dimensions (W*H*D)[mm]	1900*2100*1330						
Packing Size (W*H*D)[mm]	2100*2244*1500						
Weight [kg]	2500						
Degree of Protection	IP55 (Battery Cabinet) IP34 (Electrical Cabinet)						
Cooling Method	Battery Cabinet (Air Conditioner)						
Fire Suppression System	FM200 Automatic Fire Extinguishing						
Anti-Corrosion Grade	C3						
Relative Humidity	0 - 95% (Non-condensing)						
Operating Temperature ^[1] [°C]	-20 ~ 50						
Altitude ^[2] [m]	< 2000						
Noise Level [dB]	≤ 75						
Communication Interface	RS485, Ethernet						
Communication Protocol	Modbus RTU, Modbus TCP/IP						
PV Side Parameters (Optional)							
Max. PV Input Power [kW]	30/60		30/60/90/120				
MPPT Voltage Range [V]	200-850						
Number of MPPTs	1/1		1/1/2/2				
Number of PV Inputs	1/1		1/1/2/2				
Max. Input Current [A]	100/200		100/200/300/400				
Certifications	CE (IEC61000, IEC62619, IEC62477), UN3480, UN38.3, MSDS Converter: UK G99, VDE4105, EN50549 Cell: IEC62619, UL1973, UL1642, UL9540A						

[1] The system will be derated when the ambient temperature exceeds 45°C.

[2] The system will be derated when the altitude is above 2000m.







Integrated Outdoor Battery Energy Storage Cabinet

- Plug-and-Play, all-in-one design
- Support solar, generator, wind turbine accessing
- Up to 100% unbalanced loads operation
- Multi grid auxiliary service application
- 5 layers safety design
- Higher availability with modular design & O&M cloud platform

POWERMOUNT (860kWh–1720kWh)



Containerized Battery Energy Storage System

-  Plug-and-Play, all-in-one design
-  Standard 20HQ container
-  Support solar, generator, wind turbine accessing
-  Multi grid auxiliary service application
-  5 layers safety design
-  Higher availability with modular design & O&M cloud platform

Containerized Battery Energy Storage System

PowerMount (860kWh–1720kWh)

Model	PowerMount P400–860kWh	PowerMount P500–1075kWh	PowerMount P600–1290kWh	PowerMount P700–1505kWh	PowerMount P800–1720kWh
Battery					
Cell Type	LiFePO4 – 280Ah				
Pack Configuration	1P20S				
System Configuration	4*1P240S	5*1P240S	6*1P240S	7*1P240S	8*1P240S
Battery Capacity [kWh]	860	1075	1290	1505	1720
AC Output					
Connection Type	3P4W+PE				
Charging / Discharging Power [kW]	400	500	600	700	800
Grid Voltage [V]	400				
Frequency [Hz]	50/60				
Rated AC Output Current [A]	577	722	866	1010	1155
Harmonics	< 3% (@rated power)				
Overload Capacity	110%@10min; 120%@60s				
General Parameters					
Isolation Transformer	No				
Degree of Protection	Outdoor Installation (Battery Cabinet: IP55, Electrical Cabinet: IP34)				
Container Anti-corrosion Grade	C3				
Operation Temperature ^[1] [°C]	-20~50				
Relative Humidity	0-95% (Non-condensing)				
Permissible Altitude ^[2] [m]	≤ 2000				
Cooling Method	Battery Cabinet: HVAC, Electrical Room: Forced Air Cooling				
Fire Fighting System	FAS & FM200 / Novec1230				
Noise Emission [dB]	≤ 75				
Dimension (W*D*H)[mm]	20HQ Container (6058*2438*2896)				
Weight [kg]	24500				
Communication Interface	Ethernet				
Communication Protocol	Modbus TCP / IP				
Certifications	System: UN3536, LVD, EMC, RoHS				
	Cell: IEC62619, UL1973, UL9540A				
	PACK: UN38.3				
	PCS: G99, EN50549, AS4777.2, VDE4105				

[1] The system will be derated when the ambient temperature exceeds 45°C.

[2] The system will be derated when the altitude is above 2000m.

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Committed to providing safe products and solutions with comprehensive lifecycle services to ensure the security of customer assets

2

Stability

Stable products and solutions, steadfast business relationships, enabling customers to achieve consistent returns

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