



Innovate for a Green Future

~~2025~~



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Company



Product



Partner

INNOVATE FOR A GREEN FUTURE



ABOUT DUNEXT

Dunext is a leading technology company dedicated to solar & energy storage industry, offering cutting-edge battery energy storage solutions for commercial and industrial (C&I) applications. 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 technological innovation and worldwide service capabilities, Dunext provides secure, reliable, one-stop solutions and services, empowering businesses worldwide with industry-leading C&I solar and energy storage systems.

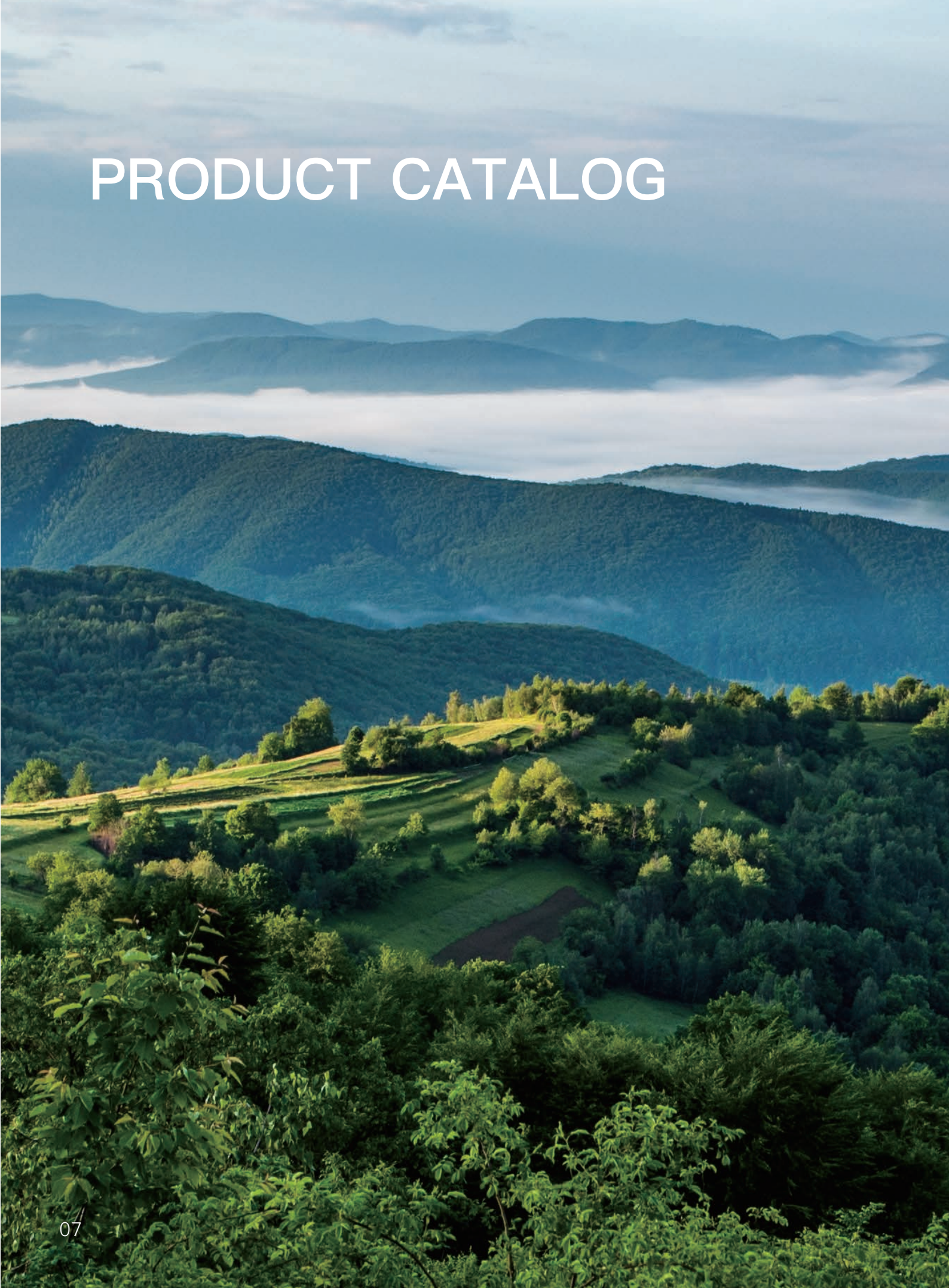
BUSINESS DEVELOPMENT LAYOUT



HQ	EMEA	Asia	America
Suzhou, China	UK / Netherlands Germany / Poland / Romania	Singapore Pakistan	USA (TBE) Brazil (TBE)

PowerHill Empowers 6 Critical C&I Scenarios





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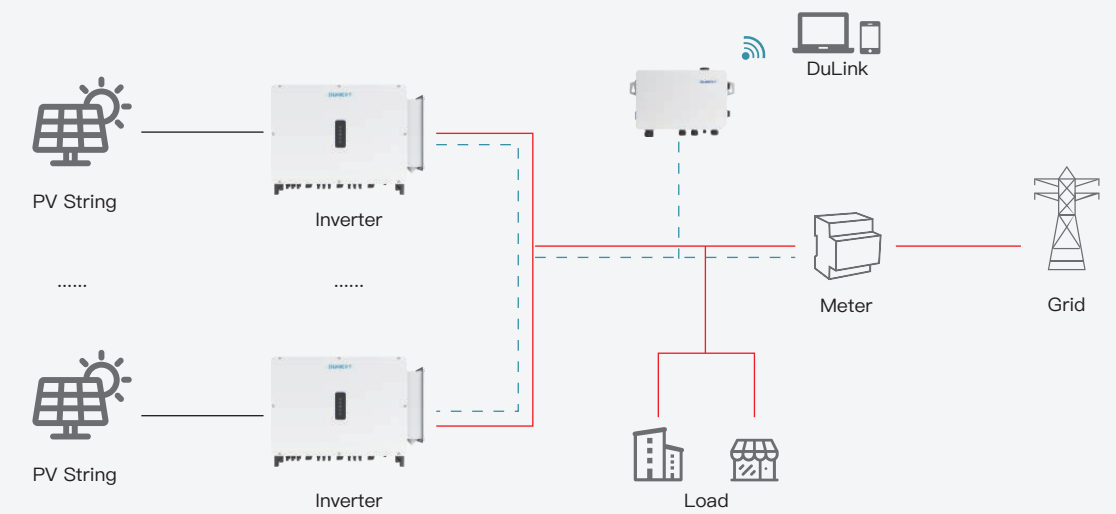
C&I SOLUTION

Commercial & Industrial Solar PV Solution

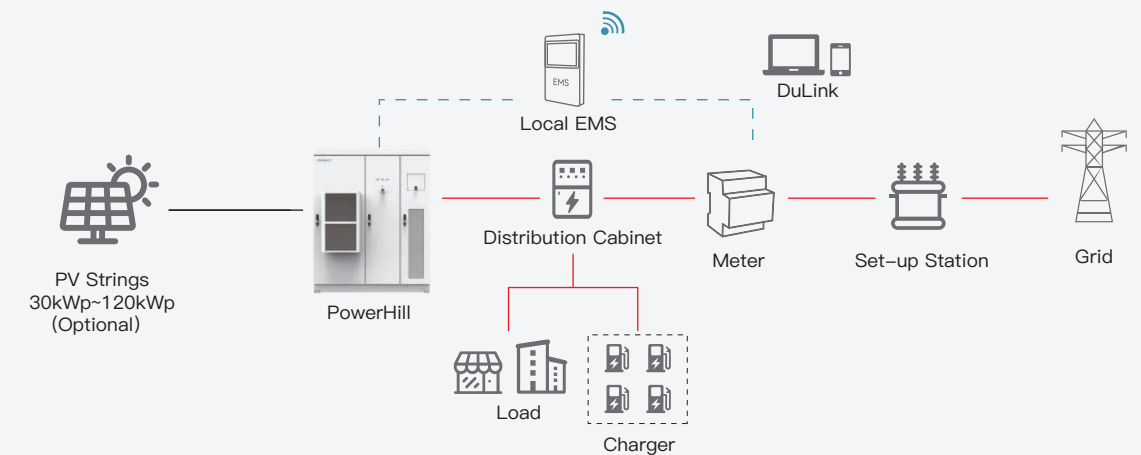
Commercial & Industrial PV+ESS Solution

Utility Scale ESS Solution

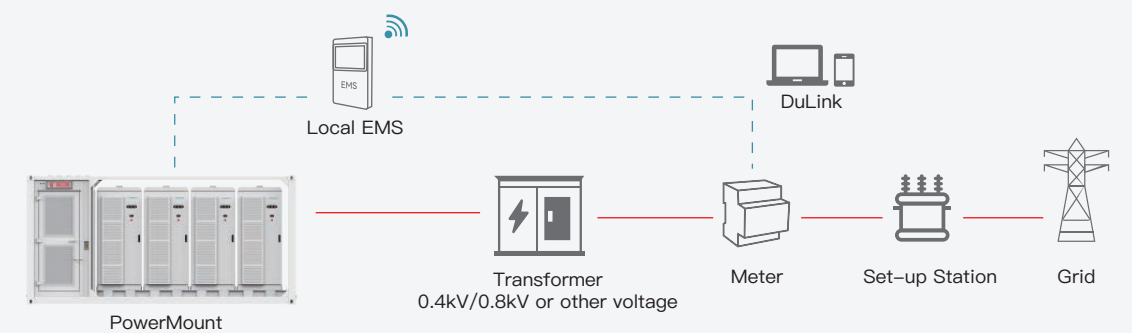
Commercial & Industrial Solar PV Solution



Commercial & Industrial PV + ESS Solution



Utility Scale ESS Solution



— DC

— AC

- - - Communication



POWERHILL (143kWh–215kWh)

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

Integrated Outdoor Battery Energy Storage Cabinet PowerHill (143kWh–215kWh)

Model	PowerHill P30~143kWh	PowerHill P30~179kWh	PowerHill P50~215kWh	PowerHill P60~143kWh	PowerHill P60~161kWh	PowerHill P60~179kWh	PowerHill P60~215kWh	PowerHill P100~215kWh
Battery								
Cell Type	LiFePO4~280Ah							
Pack Configuration	1P20S							
Battery Capacity [kWh]	143.36	179.2	215.04	143.36	161.2	179.2	215.04	215.04
AC Output								
Connection Type	3P4W							
Charging / Discharging Power [kW]	30		50		60			100
Rated Grid Voltage [V]	220 / 380; 230 / 400							
Frequency [Hz]	50 / 60							
Rated AC Output Current [A]	43		72		86			144
Adjustable Power Factor Range	0.8 Leading ... 0.8 Lagging							
Output THDi [%@Rated Output]	≤ 3%							
Backup Output (Off Grid)								
Connection Type	3P4W							
Rated Output Power [kW]	30		50		60			100
Rated Output Voltage [V]	220 / 380; 230 / 400							
Output Frequency [Hz]	50 / 60							
Rated Current [A]	43		72		86			144
Frequency Accuracy [Hz]	0.2							
General Parameters								
Dimensions [W * H * D] [mm]	1686 * 2093 * 1354							
Weight [kg]	2500							
Display	HMI							
Degree of Protection	IP55 (Battery Cabinet), IP54 (Electrical Cabinet)							
Cooling	Battery Cabinet (Air Conditioner)							
Fire Suppression System	Combustible Gas Detection + Novec1230 + Water Fire Protection							
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		60 / 90		30 / 60 / 90 / 120			
Max. PV Input Voltage Range [V]					200 ~ 750		200 ~ 650	
Number of MPPTs	1 / 1		1 / 1		1 / 1 / 2 / 2			
Number of PV Inputs	1 / 1		1 / 1		1 / 1 / 2 / 2			
Max. Input Current [A]	100 / 200		100 / 200		100 / 200 / 300 / 400			
Certifications & Standards								
System	CE (IEC 61000, IEC 62477), IEC 62109, IEC 62619, UN 3480, CEI 0-21, CEI 0-16, VDE 2510							
Converter	G99, VDE 4105, EN50549, CE (IEC 61000, IEC 62477), IEC 62109, NC RfG, VDE 4110							
PACK	UN 38.3							
Cell	IEC 62619, UL 1973, UL 1642, UL 9540A							

[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.

INDOOR RACK-MOUNTED ESS



PowerRack 0.5C Series

- Wide voltage range
- High safety LFP & smart BMS
- Expandable, capacity up to 76.8kWh per cluster
- Modular design, easy installation
- High system efficiency
- Adaptive for various commercial scenarios

Indoor Rack-Mounted ESS

PowerRack 0.5C Series

Model	PowerPack-5.12HV
Electrical Parameters	
Battery Type	LiFePO4
Nominal Battery Energy [kWh]	5.12
Nominal Capacity [Ah]	100
Nominal Voltage [V]	51.2
General Data	
Net Weight [kg]	43.5
Dimension [W * D * H] [mm]	481 * 535 * 140
Charging Temperature Range [°C]	0 ~ 55
Discharging Temperature Range [°C]	-10 ~ 55
Communication	CAN
Cycle Life ^[1]	> 6000 Cycles
Degree of Protection	IP20
Expansion	Up to 15 Units in Series
Certification & Safety Standard	UN 38.3 / CE-EMC

[1] Test conditions: 0.2C Charging / Discharging, @25°C, 95% DOD.

Model	PowerRack 0.5C Series		
	Electrical Parameters		
Rack Type	PowerRack-35.8kWh	PowerRack-51.2kWh	PowerRack-56.32kWh
Battery Module Type	PowerPack-5.12HV	PowerPack-5.12HV	PowerPack-5.12HV
Nominal Battery Energy [kWh]	35.84	51.2	56.32
Nominal Capacity [Ah]	100	100	100
Nominal Voltage [V]	358.4	512	563.2
Operating Voltage Range [V]	313.6 ~ 403.2	448 ~ 576	492.8 ~ 633.6
Nominal Power Output [kW]	21.5	30.72	33.79
Max.Power Output [kW]	35.84	51.2	56.32
Recommend Charging Current [A]	50	50	50
Recommend Discharging Current [A]	50	50	50
	General Data		
Battery Module Quantity	7 units	10 units	11 units
Net Weight [kg]	397.5	593	646.5
Dimension [W * D * H] [mm]	548 * 568 * 1412	548 * 568 * 2012	548 * 568 * 2012
Rack System Control Unit Type ^[1]	BDU-200	BDU-200	BDU-200
Module Quantity and Configuration	7 Units in series	10 Units in series	11 Units in series

[1] PowerPack-5.12HV battery module need to be used with BDU-200 control unit.



POWERMOUNT (1075kWh–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

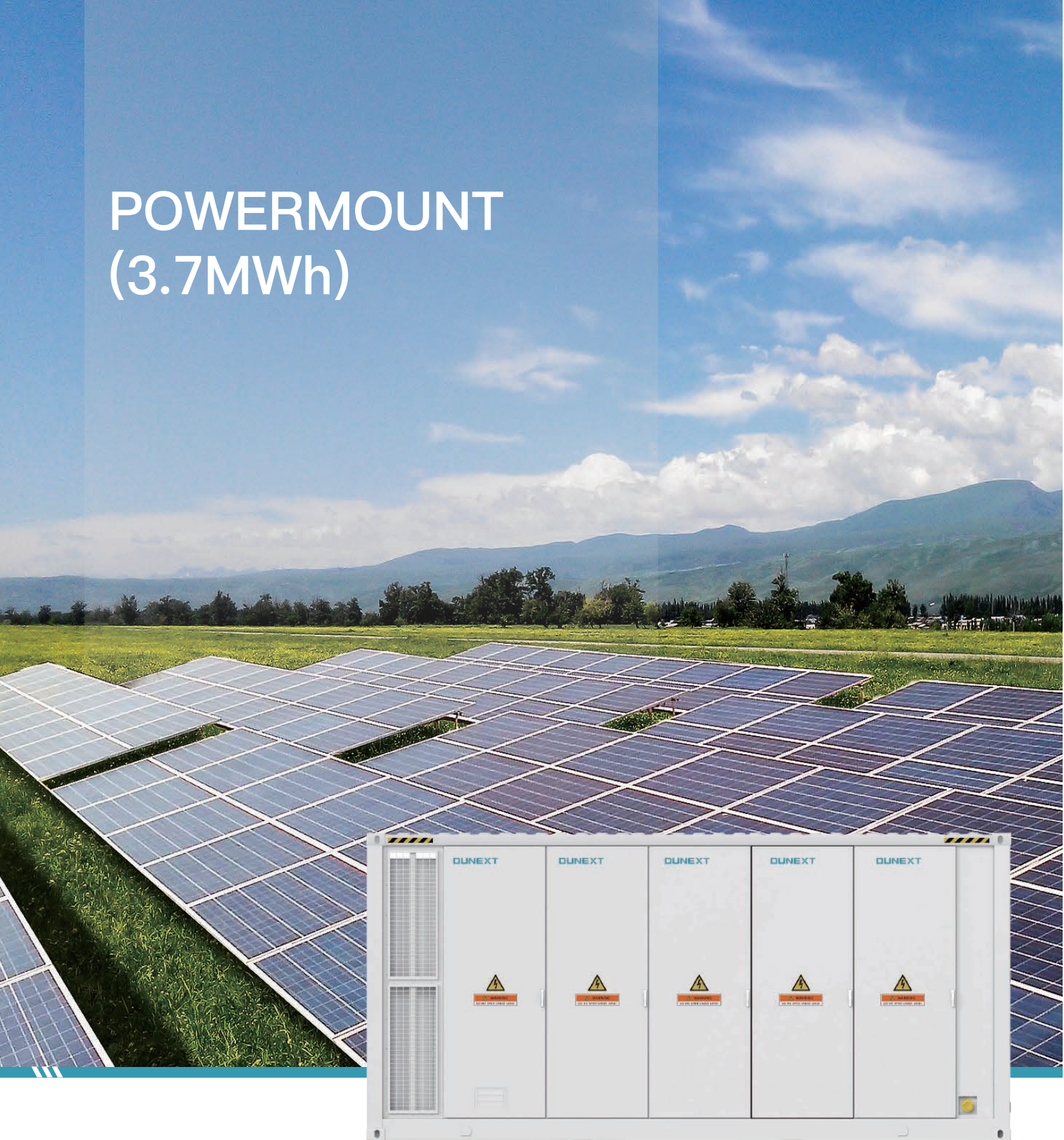
PowerMount (1075kWh–1720kWh)

Model	PowerMount P500–1075kWh	PowerMount P600–1290kWh	PowerMount P700–1505kWh	PowerMount P800–1720kWh
Battery				
Cell Type	LiFePO4 – 280Ah			
Pack Configuration	1P20S			
System Configuration	5 * 1P240S	6 * 1P240S	7 * 1P240S	8 * 1P240S
Battery Capacity [kWh]	1075	1290	1505	1720
AC Output				
Connection Type	3P4W+PE			
Charging / Discharging Power [kW]	500	600	700	800
Grid Voltage [V]	400			
Frequency [Hz]	50 / 60			
Rated AC Output Current [A]	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: IP54)			
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 & Standards				
Certifications	System: UN 3536, LVD, EMC, RoHS			
	Cell: IEC 62619, UL 1973, UL 9540A			
	PACK: UN 38.3			
	PCS: G99, EN 50549, AS 4777.2, VDE 4105			

[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.

POWERMOUNT (3.7MWh)



Containerized Battery Energy Storage System

- Pre-assembled design
- Multi-level safety protection system
- Versatile application in multiple scenarios
- Excellent thermal management
- Support 0.5P / 1P charge & discharge
- Refined management of BMS to extend battery service life

Containerized Battery Energy Storage System		PowerMount (3.7MWh)
Model	PowerMount-3.7MWh	PowerMount-3.7MWh-Pro
Battery		
Cell Type	LiFePO4 - 280Ah	
Battery Capacity [kWh]	3727.36	
Battery Rated Voltage [V]	1331.2	
Battery Voltage Range [V]	1164.8 ~ 1500.0	
Charge & Discharge Rate	0.5P	1P
Efficiency		
Max. System Efficiency	94%	
General Parameters		
Degree of Protection	IP54	
Operation Temperature [°C]	-20 ~ +55	
Relative Humidity	0 - 95 %	
Permissible Altitude [m]	≤ 2000	
Cooling Method	Liquid Cooling	
Fire Fighting System	Perfluorohexanone + Water Spray	
Dimension [W * D * H] [mm]	6058 * 2438 * 2896	
Weight [kg]	37000	
Communication Interface	Ethernet / RS485 / CAN	
Communication Protocol	Modbus TCP / Modbus RTU / CAN2.0	
Certifications & Standards		
Certifications	IEC / EN 62619, IEC / EN 63056, IEC / EN 61000, FCC, IEC / UL 60730, UL 1973, UL 9540A, UN 38.3, IEC / EN 62477, UL 9540, UN 3536	



POWERMOUNT (5MWh)

Containerized Battery Energy Storage System

- Ultra-high energy density
- Multi-level safety protection system
- Excellent thermal management to maintain the battery temperature difference $\leq 3^{\circ}\text{C}$
- Refined management of BMS to extend battery service life
- Versatile application in multiple scenarios
- Flexible Configuration, support back-to-back layout

Containerized Battery Energy Storage System

PowerMount (5MWh)

Model	PowerMount-5MWh
Battery	
Cell Type	LiFePO4 – 314Ah
Battery Capacity [kWh]	5015.96
Battery Rated Voltage [V]	1331.2
Battery Voltage Range [V]	1164.8 ~ 1500.0
Charge & Discharge Rate	0.5P
AC Output	
Max. System Efficiency	94%
General Data	
Degree of Protection	IP54
Operation Temperature [°C]	-20 ~ +55
Relative Humidity	0 – 95%
Permissible Altitude [m]	≤ 2000
Cooling Method	Liquid Cooling
Fire Fighting System	Aerosol + Water Spray
Dimension [W * D * H] [mm]	6058 * 2438 * 2896
Weight [kg]	43000
Communication Interface	Ethernet / RS485 / CAN / Domestic 4G
Communication Protocol	Modbus TCP / Modbus RTU / CAN2.0
Certifications & Standards	
Certifications	IEC / EN 62619, IEC / EN 61000, FCC Part15, IEC / UL60730, UL 1973, UL 9540A, UN 38.3, IEC / EN 62477, UL 9540, UN 3536

THREE PHASE HYBRID INVERTER

DN3H Series (25–50KTL)

-  100A high charge/discharge current support 1C solution
-  Low operating noise <50dB
-  Support 100% unbalanced loads
-  Low start-up voltage 135V for more generation time
-  Max. 120% back-up output overloading @60s
-  Support diesel generators for diverse energy sourcing

Three Phase Hybrid Inverter

DN3H Series(25–50KTL)

Model	DN3H 25KTL-H2	DN3H 30KTL-H2	DN3H 36KTL	DN3H 40KTL	DN3H 50KTL
PV Input					
Max. Recommended PV Power [Wp]	37500	45000	54000	60000	75000
Max. PV Input Voltage [V] ^[1]	1000	1000	1000	1000	1000
Rated PV Input Voltage [V]	620	620	620	620	620
Start-Up Voltage [V]	135	135	135	135	135
No. of MPP Trackers	4	4	4	4	4
No. of Input Strings per Tracker	2	2	2	2	2
MPPT Voltage Range [V] ^[1]	200-850	200-850	200-850	200-850	200-850
Max. Input Current per MPPT [A]	30	30	30	30	30
Max. Short-Circuit Current per MPPT [A]	40	40	40	40	40
AC Input / Output (On-Grid)					
Rated AC Power [W]	25000	30000	36000	40000	50000
Max. Output Apparent Power [VA]	27500	33000	39600	44000	55000
Max. Input Apparent Power [VA] ^[2]	30000	36000	43500	48000	60000
Max. AC Current [A]	42	50	60	66	83
Rated AC Voltage [V]	3L / N / PE; 220 / 380; 230 / 400				
Rated Frequency [Hz]	50 / 60				
Output THDi [@Rated Output]	< 3%				
Adjustable Power Factor [cos ϕ]	0.8 leading ... 0.8 lagging				
DCI	< 0.5%In				
AC Output (Off-Grid)					
Rated AC Power [W]	25000	30000	36000	40000	50000
Max. Output Apparent Power [VA]	27500	33000	39600	44000	55000
Max. Output Current [A]	42	50	60	66	83
Rated AC Voltage [V]	3L / N / PE; 220 / 380; 230 / 400				
Rated Frequency [Hz]	50 / 60				
Automatic Switch Time [ms]	< 20				
Output THDv	< 3%@Linear Load				
Generator Input					
Max. Input Apparent Power [VA] ^[2]	30000	36000	43500	48000	60000
Max. Charging Power of Battery [W]	25000	30000	36000	40000	50000
Rated AC Voltage [V]	3L / N / PE; 220 / 380; 230 / 400				
Rated AC Frequency [Hz]	50 / 60				
Max. Input Current [A]	43.5	52.2	63	69.6	87.0
Battery					
Battery Type	Lithium (with BMS)				
Battery Voltage Range [V]	135 - 750				
Max. Charging / Discharging Current [A]	100 / 100				
Efficiency					
Max. Efficiency	98.8%				
European Efficiency	98.3%				
Protection					
DC Reverse Polarity Protection	Yes				
Battery Input Reverse Connection Protection	Yes				
Insulation Resistance Protection	Yes				
Surge Protection	Yes				
Over-Temperature Protection	Yes				
Residual Current Protection	Yes				
Anti-Islanding Protection	Yes				
AC Over-Voltage Protection	Yes				
Overload Protection	Yes				
AC Short-Circuit Protection	Yes				
General Data					
Dimension [W * H * D] [mm]	800 * 620 * 300				
Weight [kg]	72				
Over Voltage Category	PV: II Main: III				
Operating Temperature [°C]	-30 ~ 60				
Operating Altitude [m]	3000 ^[3]				
Relative Humidity [%]	0 ~ 100				
Topology	Transformerless				
Cooling	Fan				
Degree of Protection	IP65				
Standby Self-Consumption [W]	< 15				
Noise Level [dB] ^[1]	< 50				
Display	OLED & LED				
Communication	CAN, RS485, WiFi / LAN (Optional)				
Certifications & Standards					
Grid Connection Standards	EN IEC 61000, EN IEC 62109, EN 50549-1, CEI-021				

[1] PV Max. Input voltage is 850V, otherwise inverter will be waiting;

[2] Max. apparent power from the grid refers to the highest power imported from the utility grid, utilized for supporting backup loads and charging the battery;

[3] The system will be derated when the altitude is above 3000m.



THREE PHASE ON-GRID INVERTER

DN3 Series (100–125KTL)

-  150% DC input oversizing
-  Remote firmware upgrade
-  Wide range of MPPT voltage
-  Optional smart PID recoery function
-  IP66 outdoor design
-  Compatible with repowering scenario

Three Phase On-Grid Inverter		DN3 Series (100–125KTL)	
Model	DN3-100KTL	DN3-125KTL	
PV Input			
Max. Recommended PV Power [Wp]	150000	187500	
Max. PV Input Voltage [V]	1100		
MPPT Voltage Range [V]	200 ~ 1000		
Rated Input Voltage [V]	650		
Start-Up Voltage [V]	200		
No. of MPP Trackers	9		
No. of Input Strings per Tracker	2		
Max. PV Input Current [A]	32		
Max. Short-Circuit Current per MPPT [A]	48		
AC Output			
Rated AC Power [W]	100000	125000	
Max. Apparent Power [VA]	110000	137500	
Max. AC Current [A]	159.4	181.2	
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%		
Efficiency			
Max. Efficiency	98.7%		
European Efficiency	98.3%		
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		
String Current Monitoring	Yes		
DC Surge Protection	Yes		
AC Surge Protection	Yes		
PID Function	Optional		
DC Switch	Yes		
General Data			
Dimension [W * H * D] [mm]	965 * 700 * 355		
Weight [kg]	88		
Display	LED		
Communication	RS485 (Standard), WiFi		
Ambient Temperature Range [°C]	-30 ~ +60		
Relative Humidity	0 ~ 100%		
Operating Altitude [m]	≤ 4000		
Standby Self Consumption without PID [W]	< 1		
Topology	Transformerless		
Cooling	Fan		
Degree of Protection	IP66		
Certifications & Standards			
Grid Connection Standards	IEC 62116, IEC 61727, NC RFG Type B, CEI-016, UKCA-LVD, UKCA-EMC, G99 Type A/B		
Safety Regulation	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2		
EMC	EN 61000-3-11, EN 61000-3-12, EN 61000-6-2, EN 61000-3-4, EN 50549-1, EN 50549-2		

YOUR BEST PARTNER

1

Convenience

Dedicated to delivering convenient products and solutions, providing customers with prompt and professional services

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More Values

Creating and sharing value together with our customers and partners

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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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