







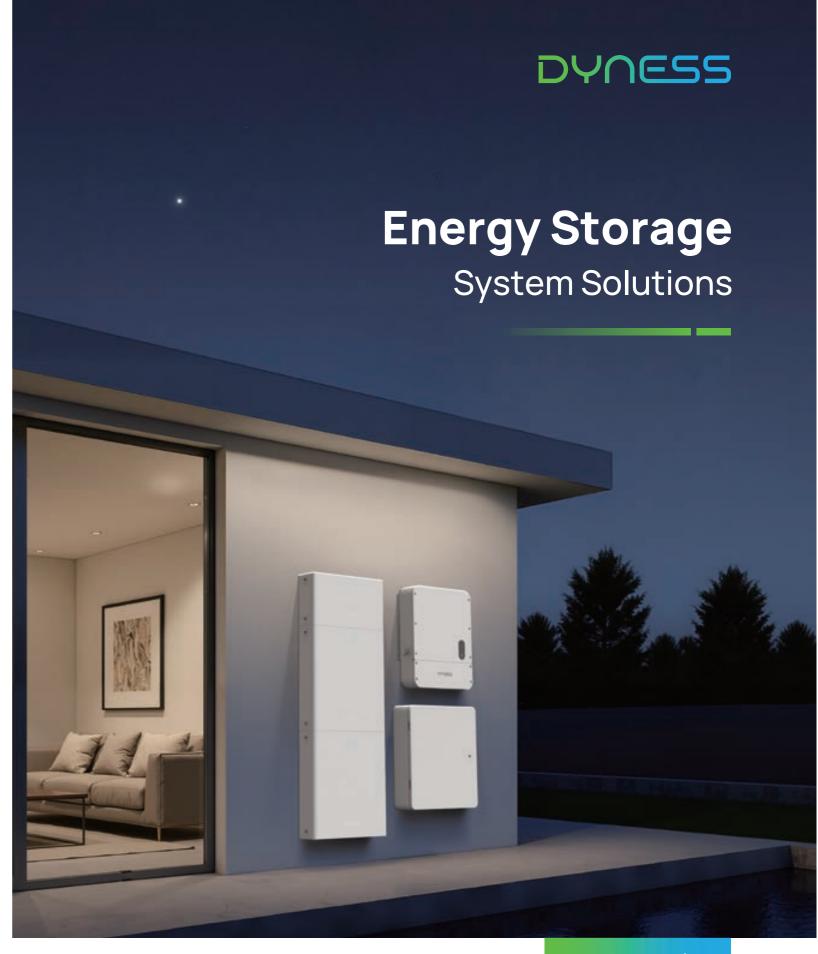


Dyness Digital Energy Technology Co., LTD.

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North America

About Dyness

Dyness, founded in 2017, is a global pioneering energy storage solutions innovator. Relying on advantageous technology and robust product R&D capabilities, Dyness has established a comprehensive product portfolio for full scenarios, including C&I and residential energy storage throughout the entire lifecycle. Dyness has provided safe, reliable, and high-quality products and services to 500,000+ users in 100+ countries and regions.

At Dyness, customer satisfaction is always Dyness' top priority. Aligned with its mission to reduce the Earth's temperature, Dyness is collaborating with 90+ global brand partners to reduce the cost of renewable energy usage for users. As the pace of global energy transition accelerates, Dyness is committed to promoting sustainable development on a global scale through commercial deepening. It strives to work alongside the industry, market and society to build a low-carbon future worldwide.



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Residential Energy Storage Products



Ultra Safe



Flexible Expansion



Easy Installation



Smart Management



Perfect Compatibility





Flexible Expansion

Up to 25 units in parallel, 10.24kWh—256kWh capacity

Type Grade 4X

Fearless of outdoor installation, strong environmental adaptability

Easy Installation

Support wall-mounted, floor-mounted installations

Smart Management

Real-time system monitoring, remote control, OTA updates

Specification

Model	Powerbox-US	
Battery Type	LiFePO ₄	
Nominal Battery Energy	10.24kWh	
Nominal Capacity	200Ah	
Nominal Voltage	51.2V	
Working Voltage	44.8~57.6V	
Recommend Output Power	5.12kW	
Max Output Power	7.68KW	
Recommended Charge/Discharge Current	100A	
Recommended Depth of Discharge	90%	
Weight	223lbs	
Dimension [W/D/H, inch]	21.85/8.27/36.54	
Charging Temp. Range	32°F~131°F	
Discharging Temp. Range	-4°F~131°F	
Communication	CAN/RS485/RS232	
Warranty	10 Years	
Warranty Document Supplied	Yes	
WIFI Module	Optional	
Cycle Life *	≥6000 Cycles	
Type Grade	4X	
Expansion	Up to 25 units in parallel	
Compatible Inverters	SMA/Schneider/Victron energy/Ingeteam/Solis /GoodWe/Growatt/Solplanet/Luxpower/DEYE etc.	
Certification & Safety Standard	UN38.3/UL1973/UL9540/UL9540A/CEC	

^{*} Test conditions: 0.2C Charging & Discharging. @25°C, 90% DOD



Flexible Expansion

Up to 50 units in parallel, 10.24kWh--512kWh capacity

- Automatic Self-heating
 - -20°C to 55°C operating temperature (optional)
- S Easy Installation

30% less volume, 15% less weight save time and labor

Ultra Safe

Intelligent fire extinguishing system, detects and extinguishes fire in 5s, automaticly pressure relief

© 1C Discharge

Max discharge current:200A, simultaneously supplying power to multiple loads

IP66 Protection

Fearless of outdoor installation, strong environmental adaptability

Specification

Model	Powerbox G2		
Battery Type	LiFePO ₄		
Nominal Battery Energy	10.24kWh		
Usable Energy	9.728kWh		
Operating Voltage	44.8-57.6V		
Nominal Voltage	51.2V		
Nominal Capacity	200Ah		
Nominal Charge or Discharge Power	5.12kW		
Max Discharge Power	10.24kW		
Recommended Charge & Discharge C Rate	0.5C		
Max Discharge C Rate	1C		
Recommended Charge/Discharge Current	100A		
Max Discharge Current	200A		
Peak Discharge Current	300A (2mins, 25°C)		
Recommended Depth of Discharge (DOD)	95%		
Net Weight	99.7kg		
Dimension[W/D/H]	710/165/640mm		
Charging Temp. Range	0~55°C/-20~55°C (with heating function)		
Discharging Temp. Range	-20~55°C		
Communication	CAN/RS485		
Cycle Life *	≥8000 Cycles/10 Years		
Protection Level	IP66		
Expansion	Up to 50 units in parallel		
Color	White		
WIFI Module	Built-in WiFi module; APP OTA function		
Battery low temperature heating function	Optional		
Active fire protection system	Built–in aerosol fire extinguisher		
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/IEC62040/CE-RED/CEC/CEI 0-21		
Compatible Inverters	SMA/Victron energy/Ingeteam/Solis/GoodWe/ Growatt/Solplanet/Luxpower/DEYE/Apsystem etc.		

^{*} Test conditions: 0.2C Charging & Discharging. @25°C, 95% DOD



Flexible Expansion

Up to 12 clusters in parallel, 7.1kWh--170.52kWh capacity

Type Grade 4X

Fearless of outdoor installation, strong environmental adaptability

Easy Installation

O wiring, plug&play, allow one people to install

Smart BMS

Millisecond level status monitor, real time battery management and optimization

Specification

Model	Tower T7-US	Tower T10-US	Tower T14-US		
Module Number	2	3	4		
Nominal Capacity		37Ah			
Nominal Battery Energy	7.10kWh	7.10kWh 10.66kWh 14.21kW			
Nominal Voltage	192V	288V	384V		
Maximum Continuous Discharge Power*	5.76kW	8.64kW	11.52kW		
Maximum Continuous Charge Power*	5.76kW	8.64kW	11.52kW		
Dimension [W/D/H, inch]	19.8/14.9/27.6	19.8/14.9/35.4	19.8/14.9/43.3		
Weight	231lb	322lb	41 2lb		
Max Depth of Discharge		100%			
Charging Temp. Range		32-122°F			
Discharging Temp. Range		14-122°F			
Communication	CAN/RS485				
Warranty	10 Years				
Warranty Document Supplied	Yes				
Cycle Life**	≥6000 Cycles				
Type Grade		4X			
Color		White			
Alarms	Overcharge/Overdisc	Overcharge/Overdischarge/Overcurrent/Overtemperature/ShortCircuit			
Pros	Can be used in both off-gri	Can be used in both off-grid and hybrid setups compactdesign modular expansi			
Battery Module Type		HV9637			
Module Connection Method	in series				
Compatible Inverters	Solis				
Certification	UN38.3/UL1973/UL9540A/UL9540/AVL				

 $^{{\}rm *Maximum\,Continuous\,Discharge/Charge\,Power\,when\,communicating\,with\,inverter\,is\,0.6C}$

^{**} Test conditions: 0.2C Charging&Discharging.@25°C,95%DOD

E-Pearl 1000W

The E-Pearl 1000W is a portable outdoor power supply that provides power for your journey. It has multiple output ports that can power multiple devices such as mobile phones, computers, drones, etc. Meanwhile, it supports multiple charging methods, so you don't have to worry about power problems when you're on the go. Small size, light weight, space-saving, so your outdoor life without power worries.



Features and Advantages

Large Power in Small Size

With a capacity of 1075Wh and 1000W output, power for outdoor life

Multi-output Interfaces

Includes AC output, USB-A, USB-C and other output interfaces, allowing multiple devices to be charged simultaneously

Ultra Safe

LFP battery cells, multi-safety protection, 2000 charge and discharge cycles Lightweight and Portable

Weight 27.28lbs, 14.96*8.43*12.17 inches, easy to carry with one hand.

3 Ways to Charge

Support AC input, solar input and car charging, charge anywhere

Specification

Model	E-Pearl 1000W	
Nominal Capacity	1075Wh	
Cell Material	LiFePO ₄	
Size	L356 W216 H300mm	
Weight	27.28lbs	
Certification	FCC/CE/PSE/UN38.3/MSDS/CEC/AVL	
Cycle Life	2000	
Working Temp.	0-40°C	
Storage Temp.	-10-65°C	
Max AC Output	1500W	

Phone (12Wh) ≈87 recharges Pad (30Wh) ≈34.5 recharges







LED Light (5Wh) ≈53.5 hours

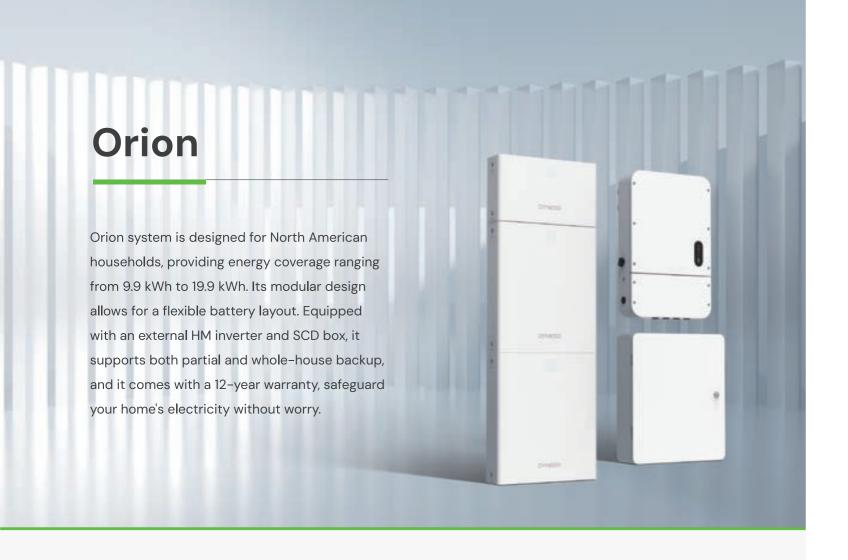


Mini Fridge (60Wh) ≈17 hours

Panel Function Description



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Expandable On Demand

Modular Design, 9.9kWh--19.9kWh capacity

Backup Solution

Support both partial or whole-house backup

Easier Space Layout

Battery could be laid out freely, high space utilization Long-term Reliability

LFP cells, ≥10000 cycles, 12 years warranty

Ultra Safe

Built-in AFCI to support DC Arc draw detection and eliminate fire hazards, UL9540, UL9540A approved

Specification

Model	ORION9.9	ORION14.9	ORION19.9	
Module Type	LiFePO ₄	LiFePO₄	LiFePO₄	
Module Number	2	3	4	
System Nominal Capacity	52Ah	52Ah	52Ah	
System Nominal Battery Energy	9.98kWh	14.98kWh	19.97kWh	
System Max. Discharge Power	7.68kW	11.52kW	15.36kW	
System Nominal Voltage	192V	288V	384V	
System Size	Di	fferent combinations, different size	es	
System Voltage Range	168~216V	252~324V	336~432V	
Battery System Charge Voltage	219V	328.8V	438V	
Max Battery System Charge/Discharge Current	40A	40A	40A	
Battery System Discharge lower-Voltage	168V	252V	336V	
System Configuration	2 Series	3 Series	4 Series	
Battery System Max. Charge & Discharge Current	40A	40A	40A	
System Recommend Depth of Discharge	90%			
System Max Depth of Discharge	90%			
System Discharge Temp. Range	14°F~122°F			
System Charge Temp. Range	32°F~122°F			
Short Circuit Current		1.5kA		
Warranty		12 Years		
Cycle Life		≥10000 Cycles		
Enclosure Protection		NEMA 4X		
Battery Module Name		HV9652		
Battery Module Energy	4.99KWh			
Battery Module Voltage	96V			
Battery Module Capacity	52Ah			
Battery Module Weight	127.9lbs(58kg)			
Battery Module Dimension [W/D/H, inch]	21.3/6.5/24.3 in(540/165/616mm)			
System Certification	UN38.3/UL1973/UL9540A/UL9540/CEC(US)/AVL			

Model	Orion BDU		
Operating Voltage	80~750V		
Maximum Continuous Current	52A		
Dimension [W/D/H, inch]	21.3/12.4/6.5 in (540/316/165mm)		
Weight	39.7lbs (18kg)		
Enclosure Protection	NEMA 4X		

Model	TX5K-HM	TX6K-HM	TX7.6K-HM	TX9.6K-HM	TX11.4K-HM
Battery Input Data					
Battery Type	Orion Battery				
Battery Voltage Range(V)	80~490				
Max.Charge/Discharge Current(A)	40/40				
Max.Charge/Discharge Power(W)	5500	6600	8360	11000	12540

MasePV Input Power (W)	Model	TX5K-HM	TX6K-HM	TX7.6K-HM	TX9.6K-HM	TX11.4K-HN
MarcPV Input Voltage (V)	PV String Input Data					
### APPT Range (V) 60-550 ### ST STETT - Ly Vallage (V) 180-500 210-500 183-500 170-500 200-500 ### Tange for Naminal Power (V) 180-500 210-500 183-500 170-500 200-500 ### Tange for Naminal Power (V) 180-500 210-500 183-500 170-500 200-500 ### Tange for Naminal Power (V) 180-500 210-500 183-500 170-500 200-500 ### Tange for Naminal Power (V) 100-500 100-500 11400 ### Tange for Naminal Power Output To Grid (VA) 5000 6000 7600 9600 11400 ### Power Output To Grid (VA) 5000 6000 7600 9600 11400 ### Power Output To Grid (VA) 5000 6000 7600 9600 11400 ### Power Output To Grid (VA) 5000 6000 7600 9600 11400 ### Power Output To Grid (VA) 5000 6000 7600 9600 11400 ### Power Power Output To Grid (VA) 5000 6000 7600 9600 11400 ### Power Power Output To Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output To Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output To Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 25 31.7 40 47.5 ### Power Power Output Town Grid (VA) 20.8 20.8 20.8 20.8 20.8 ### Power Power Output Town Grid (VA) 20.8 2	Max.PV Input Power (W)	7500	9000	11400	15000	17100
SPS Start-up Veltage (V)	Max.PV Input Voltage (V)		600			
MPPT Range For Nominal Power (V)	MPPT Range (V)			60~550		
Nominal PV Input Voltage (V) 390 MacAlput Current (A) 15 MacAlput Current (A) 20	SPS Start-up Voltage (V)			60		
Max.Riput Current (A) 20 Max.Short Current (A) 20 Noor MPP Trackers 2 2 2 3 3 4 4 4 A. O. Output Date (On-grid) 5000 6000 7600 9600 11400 Max.Power Output To Grid (VA) 5000 6000 7600 9600 11400 Max.Power Iron Grid (VA) 5000 6000 7600 9600 11400 Max.Power Iron Grid (VA) 5000 6000 7600 9600 11400 Max.Power Iron Grid (VA) 5000 6000 7600 9600 11400 Max.Power Iron Grid (VA) 5000 6000 7600 9600 11400 Max.Power Iron Grid (VA) 5000 6000 7600 9600 11400 Max.Power Iron Grid (VA) 5000 6000 7600 9600 11400 Max.Power Iron Grid (VA) 5000 6000 7600 9600 11400 Nominal Output Voltage (Va) 1600 11400 Max.Power Iron Grid (VA) 208 25 317 40 47.5 Output Power Factor Adjustable from 0.8 leading to 0.8 legging Output Power Factor Adjustable from 0.8 leading to 0.8 legging AC Output Data (Back-up) Max.Output Power (VA) 9500 9600 9600 10000 11400 Peak Output Power (VA) 9120,60sec 9120,60sec 13680,60sec 13680,60s	MPPT Range For Nominal Power (V)	180~500	210~500	185~500	170~500	200~500
Max.Short Current (A)	Nominal PV Input Voltage (V)			390		
No. of MPP Trackers	Max.Input Currrent (A)		15			
Strings per MPP Tracker	Max.Short Currrent (A)			20		
AC Output Data (On-grid) Nominal Power Output To Grid (VA) SOOO 8000 7600 9600 11400 Max Power Output To Grid (VA) SOOO 8000 7600 9600 11400 Max Power Output To Grid (VA) SOOO 8000 7600 9600 11400 Nominal Output Frequency (Hz) SOO 8000 7600 9600 11400 Nominal Output Frequency (Hz) SOO 8000 7600 9600 11400 Nominal Output Frequency (Hz) SOO 8000 7600 9600 11400 Nominal Output Frequency (Hz) SOO 8000 7600 9600 11400 Nominal Output Frequency (Hz) SOO 8000 7600 9600 11400 47.5 Max AC Current To Grid (A) 20.8 25 31.7 40 47.5 Output ThDI (Nominal Power) - 3% COUTput Tata (Back-up) Max Output Tours (VA) SOOO 8000 7600 10000 11400 Peak Output Power (VA) 9120,60sec 9120,60sec 9120,60sec 9120,60sec 13680,60sec 136	No.of MPP Trackers	2	2	3	4	4
Nominal Power Output To Grid (VA)	Strings per MPP Tracker			1		
Max.Power Output To Grid (VA) 5000 6000 7600 9600 11400 Max.Power From Grid (VA) 5000 6000 7600 9600 11400 Nominal Output Voltage (V) 120/240 Max.AC Current To Grid (A) 20.8 25 31.7 40 47.5 Max.AC Current From Grid (A) 20.8 25 31.7 40 47.5 Max.AC Current From Grid (A) 20.8 25 31.7 40 47.5 Max.AC Current From Grid (A) 20.8 25 31.7 40 47.5 Output The Will (Nominal Power)	AC Output Data (On-grid)	'				
Max.Power From Grid (VA) 5000 6000 7800 9600 11400 Nominal Output Voltage (V) 120/240 Nominal Output Frequency (Hz) 60 Max.AC Current To Grid (A) 20.8 25 31.7 40 47.5 Max.AC Current From Grid (A) 20.8 25 31.7 40 47.5 Output Power Factor Adjustable from 0.8 leading to 0.8 legging Output ThDI (Nominal Power)3% ACC Output Data (Back-up) Max.OUtput Power (VA) 5000 6000 7600 10000 11400 Peak Output Power (VA) 9120,60sec 9120,60sec 13680,60sec 13680,60sec 13680,60sec 120/240(without transformer) Nominal Output Voltage (Vac) 60 Output ThDV (@Linear Load)3% Whole Home Back-up Yes, With SCD Efficiency 99.90% 99.90% 99.90% 99.90% 99.90% 99.80% Max.Efficiency 97.50% 97.50% 97.60% 97.70% 97.70% OECGridioney 97.00% 97.00% 97.00% 97.00% 97.00% 97.00% Protection Integrated Protection Integrated PVR everse Protection Integrated Battery Reverse Protection Integrated DC Switch (PV) Integrated Battery Reverse Protection Integrated Communication Interface Battery Bases CAN EMS EMS EMS EMS EMS EMS EMS EM	Nominal Power Output To Grid (VA)	5000	6000	7600	9600	11400
Nominal Output Voltage (V) 120/240	Max.Power Output To Grid (VA)	5000	6000	7600	9600	11400
Nominal Output Frequency (Hz)	Max.Power From Grid (VA)	5000	6000	7600	9600	11400
Max.AC Current To Grid (A) 20.8 25 31.7 40 47.5	Nominal Output Voltage (V)			120/240		
Max.AC Current From Grid (A) 20.8 25 31.7 40 47.5	Nominal Output Frequency (Hz)			60		
Dutput Power Factor	Max.AC Current To Grid (A)	20.8	25	31.7	40	47.5
Coutput THDi (Nominal Power)	Max.AC Current From Grid (A)	20.8	25	31.7	40	47.5
AC Output Data (Back-up) Max.Output Power (VA) 5000 6000 7600 10000 11400 Peak Output Power (VA) 9120,60sec 9120,60sec 13680,60sec 13680,60secc 1360	Output Power Factor		Adjustabl	e from 0.8 leading to	0.8 lagging	
Max.Output Power (VA) 5000 6000 7600 10000 11400 Peak Output Power (VA) 9120,60sec 9120,60sec 9120,60sec 13680,60sec 13680,60see 13680,6see 13680,6see	Output THDi (Nominal Power)			<3%		
Peak Output Power (VA)	AC Output Data (Back-up)	'				
Max.Output Current (A) 20.8 25 31.7 40 47.5 Nominal Output Voltage (Vac) 120/24Q(without transformer) Nominal Output Frequency (Hz) 60 Output THDv (@Linear Load) 75.50 75.50 75.50 75.50 99.90% 9	Max.Output Power (VA)	5000	6000	7600	10000	11400
Nominal Output Voltage (Vac) 120/240(without transformer)	Peak Output Power (VA)	9120,60sec	9120,60sec	9120,60sec	13680,60sec	13680,60se
Nominal Output Frequency (Hz) 60	Max.Output Current (A)	20.8	25	31.7	40	47.5
Output THDV (@Linear Load) <3% Whole Home Back-up Yes, With SCD Efficiency Propertion MPPT efficiency 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 97.70% 97.70% 97.70% 97.70% 97.70% 97.00%	Nominal Output Voltage (Vac)		120,	/240(without transfo	mer)	
Whole Home Back-up Yes, With SCD Efficiency 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 97.70% 97.70% 97.70% 97.70% 97.70% 97.00%	Nominal Output Frequency (Hz)			60		
### Part	Output THDv (@Linear Load)			< 3%		
MPT efficiency 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 99.90% 97.70% 97.00% <td< td=""><td>Whole Home Back-up</td><td></td><td></td><td>Yes, With SCD</td><td></td><td></td></td<>	Whole Home Back-up			Yes, With SCD		
Max.efficiency 97.50% 97.50% 97.60% 97.70% 97.70% CEC-efficiency 97.00% 97.00% 97.00% 97.00% 97.00% Protection Integrated PV&Battery AFCI Integrated Repid Shut Down Integrated PV Reverse Protection Integrated Battery Reverse Protection Integrated Residual Current Monitoring Unit Integrated Over Current/ Voltage Protection Integrated DC Switch (PV) Integrated DC Typell/AC TypellI Communication Interface Battery BMS CAN EMS CAN EMS CAN EMS CAN EMS CAN EMS CAN EMS CAN	Efficiency					
Protection	MPPT efficiency	99.90%	99.90%	99.90%	99.90%	99.90%
Protection Anti-island Protection Integrated PV&Battery AFCI Rapid Shut Down Integrated PV Reverse Protection Integrated Battery Reverse Protection Integrated Residual Current Monitoring Unit Over Current/ Voltage Protection Integrated DC Switch (PV) Integrated Surge Protection DC Typell/AC Typelll Communication Interface Battery BMS CAN EMS RS485 Meter Dry Contact VES(DO) Cloud Wi-Fi, Bluetooth, LAN	Max.efficiency	97.50%	97.50%	97.60%	97.70%	97.70%
Anti-island Protection Integrated PV&Battery AFCI Integrated Rapid Shut Down Integrated PV Reverse Protection Integrated Battery Reverse Protection Integrated Residual Current Monitoring Unit Integrated Over Current/ Voltage Protection Integrated DC Switch (PV) Integrated Surge Protection DC Typell/AC TypellI Communication Interface Battery BMS CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	CEC-efficiency	97.00%	97.00%	97.00%	97.00%	97.00%
PV&Battery AFCI Integrated Rapid Shut Down Integrated PV Reverse Protection Integrated Battery Reverse Protection Integrated Residual Current Monitoring Unit Integrated Over Current/ Voltage Protection Integrated DC Switch (PV) Integrated Surge Protection DC Typell/AC TypellI Communication Interface Battery BMS CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	Protection	1				
Rapid Shut Down Integrated PV Reverse Protection Integrated Battery Reverse Protection Integrated Residual Current Monitoring Unit Integrated Over Current/ Voltage Protection Integrated DC Switch (PV) Integrated Surge Protection DC Typell/AC Typelll Communication Interface Battery BMS CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud	Anti-island Protection			Integrated		
PV Reverse Protection Integrated Battery Reverse Protection Integrated Residual Current Monitoring Unit Integrated Over Current/ Voltage Protection Integrated DC Switch (PV) Integrated Surge Protection DC Typell/AC Typelll Communication Interface Battery BMS CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	PV&Battery AFCI			Integrated		
Battery Reverse Protection Integrated Residual Current Monitoring Unit Integrated Over Current/ Voltage Protection Integrated DC Switch (PV) Integrated Surge Protection DC Typell/AC Typelll Communication Interface Battery BMS CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	Rapid Shut Down			Integrated		
Residual Current Monitoring Unit Over Current/ Voltage Protection DC Switch (PV) Integrated DC Typell/AC TypellI Communication Interface Battery BMS CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud Integrated DC Typell/AC TypellI Minerated Surge Protection DC Typell/AC TypellI CAN RS485 Meter RS485 Dry Contact YES(DO)	PV Reverse Protection			Integrated		
Over Current/ Voltage Protection Integrated DC Switch (PV) Integrated Surge Protection DC Typell/AC TypellI Communication Interface CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	Battery Reverse Protection			Integrated		
DC Switch (PV) Integrated	Residual Current Monitoring Unit			Integrated		
Surge Protection DC Typell/AC TypellI Communication Interface CAN Battery BMS CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	Over Current/ Voltage Protection			Integrated		
Communication Interface Battery BMS CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	DC Switch (PV)					
Battery BMS CAN EMS RS485 Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	Surge Protection					
RS485 Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	Communication Interface					
Meter RS485 Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	Battery BMS			CAN		
Dry Contact YES(DO) Cloud Wi-Fi, Bluetooth, LAN	EMS					
Cloud Wi-Fi, Bluetooth, LAN	Meter	RS485				
	Dry Contact					
Display/User Interface LED/APP	Cloud			Wi-Fi, Bluetooth, LAN	1	
	Display/User Interface			LED/APP		

Model	TX5K-HM	TX6K-HM	TX7.6K-HM	TX9.6K-HM	TX11.4K-HM
Certifications & Standards					
Grid Regulation		UL1741 SA,California rule 21,HECO Rule 14,IEEE1547,IEEE1547.1			
Safety Regulation		UL1741,CSA	22.2No.107-01, UL 19	98,UL1699B	
EMC			FCC Part15 CLASS B	ı	
General Data					
Operating Temperature Range (°F)		-13-140(-25-60°C)			
Relative Humidity (%)		0-100%			
Operating Altitude (ft)	≤9843ft(3000m)				
Cooling	Natural Cooling				
Noise (dB)		<35			
Weight (b)		661			
Size (W/D/H) (inch)	19/8/28.5				
Installation	Wall-Mounted				
Enclosure Type	NEMA 4X(IP66)				

Model	SCD-200-63
Electrical Data	
Nominal Output Voltage (V)	240
Output Voltage Range (V)	211~264
Feed-in Type	Split Phase
Nominal AC Voltage of Line Conductor (V)	120/240
Nominal AC Frequency (Hz)	60
AC Frequency Range (Hz)	58.5~61.2
Current Rating (From Grid) (A)	200
Max.Continuous Current FromInverter (A)	47.5
Maximum Overcurrent Protection of Main Breaker (A)	200
Maximum Overcurrent Protection of Circuit Breaker ofInverter (A)	63
General Data	
Operating Temperature Range (°F)	-13°F~+140°F(-25°C~+60°C)
Max.Operating Altitude (ft)	9842ft (3000m)
Cooling Method	Natural Cooling
Communication with Inverter	RS485
Weight (lb)	35.3lbs (16kg)
Dimension (W/D/H in)	22.2/6.0/25.5(564/153/648mm)
Mounting Method	Wall Mounted
Ingress Protection Rating	Type 3R(IP44)
Certification	
Safety Regulation	UL1741,CSA 22.2 No.107-01
EMC	FCC part15 CLASS B



Safe & Reliable

Build in active fire protection system, strong cell balance ability

VPP Ready

Quick demand response

IP66 Protection

Fearless of outdoor installation, strong environmental adaptability © 1C Ultra-rapid Charge

Fully charge the battery in just one hour

Easy Installation

Wiring-free stack design, one-click commissioning system self-check

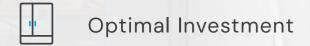
Specification

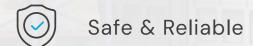
System Type	Cygni	Hybrid	Суді	ni AC		
Model	Cygni 8.0HS-M2/3/4	Cygni 10.0HS-M2/3/4	Cygni 8.0AS-M2/3/4	Cygni 10.0AS-M2/3/4		
Battery Input Data						
Battery Type	LiFePO₄					
Battery Module		Cygni E	3AT-3.8			
Expandable Quantity		2~4				
Usable Energy (kWh)		7.68~	15.36			
Operating Voltage (V)		168~	438			
Nominal Voltage (V)		192~	384			
Max.Charge/Discharge Power (kW)		7.68	3~11			
Max. DOD (Depth of Discharge)		95	5%			
Cycle Life		≥8000	Cycles			
PV String Input Data						
Max. PV Input Power (W)	12000	15000	-			
Max. PV Input Voltage (V)	60	00		-		
MPPT Range (V)	60-	60~550 -				
Start-up Voltage(V)	6	60 -				
Nominal PV Input Voltage (V)	39	90		-		
Max. Input Currrent / Max. Short Currrent (A)	16	/ 23		-		
No. of MPP Trackers / Strings per MPP Tracker	3	3/1		-		
AC Output Data (On-grid)						
Nominal Power Output To Grid (VA)	8000	9999	8000	9999		
Max Power Output To Grid (VA)	8000	9999	8000	9999		
Max Power From Grid (VA)	8000	9999	8000	9999		
Nominal Output Voltage (V)		23	30			
Nominal Output Frequency (Hz)		5	0			
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging					
Output THDi (Nominal Power)	<3%					
AC Output Data (Back-up)						
Nominal Output Power (VA)	8000 10000		8000	10000		
Max. Output Power (VA)	9600	12000	9600	12000		
Nominal Output Voltage (Vac)	230					
Nominal Output Frequency (Hz)	50					

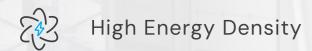
System Type	Cygni Hybrid	Cygni AC			
Output THDv (@Linear Load)	<3%				
Backup UPS (ms)	<10				
Inverter Efficiency					
Max. Effciency	97.50%				
European Efficency	97.0	00%			
Protection					
Anti-island Protection	Integ	rated			
PV String Input Reverse Polarity Protection	Integ	rated			
Battery Reverse Protection	Integ	rated			
Residual Current Monitoring Unit	Integ	rated			
Over Current/Voltage Protection	Integ	rated			
AC Short Circuit Current Protection	Integ	grated			
DC Switch (PV II)	Integrated				
Fire Protection System	Built-in aerosol	fire extinguisher			
Surge Protection	DC Type II/AC Type III				
General Data					
Topology	Non-Isolated				
Operating Temperature Range (°C)	0~	-50			
Relative Humidity (%)	0~	-95			
Operating Altitude (m)	30	000			
Cooling	Natural C	Convection			
Noise (dB)	ζ.	35			
Inverter / Battery Module Weight (kg)	27.5	/ 40.5			
System Weight (kg)	113.2/153.7/193.7 (Dependi	ng on the module number)			
Inverter Battery Module Size (W/D/H)	650/180/450mm	650/180/300mm			
System Size (W/D/H)	650/180/1130 or 650/180/1430 or 650/180/1	730mm (Depending on the module number)			
Installation Methods	Wall-Mounted 8	& Floor-standing			
Communication	RS485, Wi-	Fi, Bluetooth			
Display	LCD Screen	n; APP; Web			
Enclosure Type	IP	66			
Certifications & Standards	UN38.3, AS/NZS 4777.2: 2020, IEC 62109-1/2, IEC62040,EN 62920:2017/A1:2021,IEC/EN 61000-6-1/3				
Country of Manufacture	China				



















Flexible Expansion

Up to 12 clusters in parallel, 15KWh--921KWh capacity

© 1C Rate

Suitable for grid frequency regulation, charging stations and other scenarios, cost saving

Automatic Self-heating

-20°C to 55°C operating temperature (optional)

Ultra Safe

Intelligent fire extinguishing system, detects and extinguishes fire in 5s

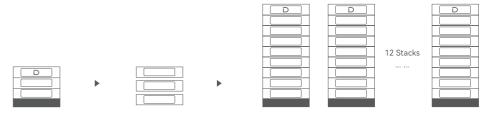
🔀 Easy Installation

O wiring, rackless free stacking, plug-and-play, one cluster installation in 30min

Battery Equalization

Free mixing of modules within three years

Specification



Battery Type Module Voltage/Capacity Single Module Weight	LiFePO ₄ 51.2V/100Ah
Single Module Weight	47V.c
	47Kg
System Modules Serial Number	3~15
System Energy Range	15.36-76.8kWh
Operating Voltage	134-864V
Recommended Charge/Discharge Current	50A (0.5C)
Max.Charge/Discharge Current	100A (1C)
Peak Discharge Current(2min 25°C)	125A(1.25C)
Depth of Discharge	95%
Communication	CAN/RS485
Cycle Life[1]	≥8000 Cycles / 10 Years
Single Cluster Dimension[W/D/H](mm)	590/390/(233+133*n), "n" stands for the number of battery modules
Charging Temp. Range	0~55°C/-20~55°C(Optional)
Discharging Temp. Range	-20~55°C
Protection Level	IP20
Fire Protection System	Aerosol fire extinguisher
Installation method	Stack type
Cooling method	Forced wind cooling
WiFi Module	Built-in WiFi module; APP OTA function
Battery Module Name	S51100
Certification & Safety Standard	CE-EMC/CE-RED/62619/63056/62477/62040/UN38.3/VED2510
Compatible Inverters	Kostal/Ingeteam/Solis/GoodWe/Growatt/Solplanet/SAJ/DEYE/Hoymiles/SOLINTEG ect

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



Flexible Expansion

Maximum support for 10 machines in AC parallel, expandable to 2.3MWh; reserved DC expansion interface

Economical

Occupies an area of 1.58m², energy density up to 147kWh/m², low installation costs

Ultra-high Level Protection

PACK+PCS IP65,C3/C5 anti-corrosion grade optional, handles harsh environments such as high humidity and salt spray corrosion with ease

M Ultra Safe

Three-level fire detection + active exhaust + passive explosion-proof design to eliminate hidden hazards and ensure safe operation

Smart Temperature Control

PACK smart liquid cooling+PCS smart air cooling, cluster-level temperature differences $3^{\circ}\mathrm{C}$

Simple O&M

Modular design, pre-maintenance solution for easy access and O&M, and support for online monitoring and O&M

Specification

Model	DH200Y	
Battery		
Battery Type	LiFePO ₄	
Battery Capacity	280Ah	
PACK Configuration	1P52S*5	
Rated Current	140A	
Max. Current	160A	
/oltage Range	754~936Vdc	
Nominal Capacity	232kWh	
Dn-grid AC Side		
Rated Power	100kW	
AC Maximum Current	145A	
AC Rated Voltage	400Vac	
Viring Method	3P4L+PE	
requency	50Hz	
Power Factor	1(Leading)~1(Lagging)	
THDi	≤3% (Rated power)	
Max. Number Of Parallel Expansions	10	
System		
Veight	2600±100kg	
Dimension (W/D/H)	1055/1475/2400mm	
Max. Efficiency	90%	
iquid-cooling Power	2.5kW (Cooling), 2kW (Heating)	
Operating Temperature	-20~50°C (Derating above 45°C)	
Operating Humidity	O~95%RH (Non-condensing)	
ngress Protection	IP55	
Anti-corrosion Grade	C3(Optional C5)	
Cooling Method	PACK Liquid-cooling + PCS Air-cooling	
Noise	≤75dB	
Elevation	3000m (Derating above 2000m)	
Display	Touch screen	
ire Protection	Aerosol, Multi-sensor/Water ingress, Explosion-proof ventilation	
Communication	Ethernet/4G/RS485	
Certification	CQC, CE, TUV, LVD, UN38.3	

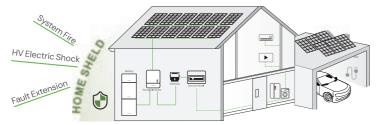




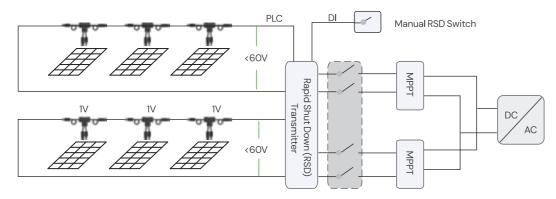
◆ Rapid Shutdown and AFCI Safety

DYNESS system integrates necessary safety measurements for your house. With integrated RSD transmitter

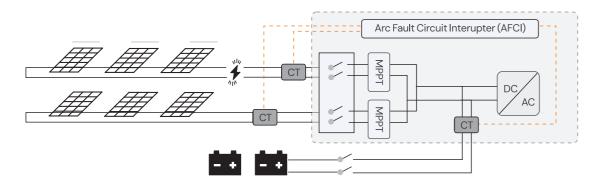
(APSmart RSD-PLC), solar strings will drop to a touch-safe voltage upon inverter shutdown, thus, to minimize electric shock risk.



Rapid Shutdown System Topology Scheme



♦ AFCI System Topology Scheme





The AFCI system will have an overall measurement of electric ARC fault on DC side, both SOLAR and BATTERY. The system will restart to check again in case of false alarm for the first 4 faults detected. If fault continues, system will shut down from the 5th AFCI alarm.

Elegant Indicator Light



HYBRID INVERTER			
LED INDICATOR	LED STATUS	DEFINITION	
RUN		ON=Inverter is running Single Flash=Inverter is power on Double Flash=Inverter is starting OFF=Inverter is not operating	
OFF GRID		ON=Back-up is ready Single Flash=Grid bypass mode OFF=Back-up port no voltage	
СОМ		ON=BMS and meter communication ok Single Flash=Meter com.ok, BMS communication fail Double Flash=BMS com.ok,Meter communication fail OFF=BMS and Meter communication fail	
FAULT		ON=Error Occured OFF=No Errors	
SOC		4th LED Blinks=0%≤SOC≤25% 3rd LED Blinks=25% <soc≤50% 1rd="" 2rd="" blinks="75%<SOC≤100%</td" led=""></soc≤50%>	

BDU LED INDICATORS:

- 1. BLUE-Charging/Discharging/Standby
- 2. RED-Fault
- 3. Blue Twinkling-Standby
- 4. Blue Beaming-Blooming mode for discharging
- 5. Blue Beaming-Centralizing light for charging

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♦ Full System Monitoring & Easy Commissioning

Dyness APP for Smart phones is a comprehensive platform for system monitoring / commissioning and general O&M.

- Multiple Controllable Options
- For Both Installers and Users
- Automatic Guide to Next Step
- All Functions in One App

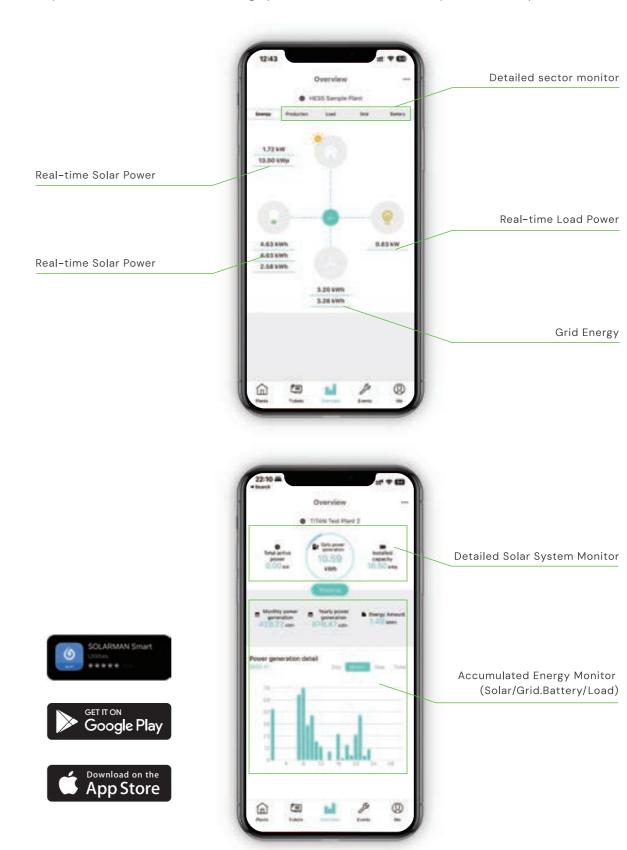








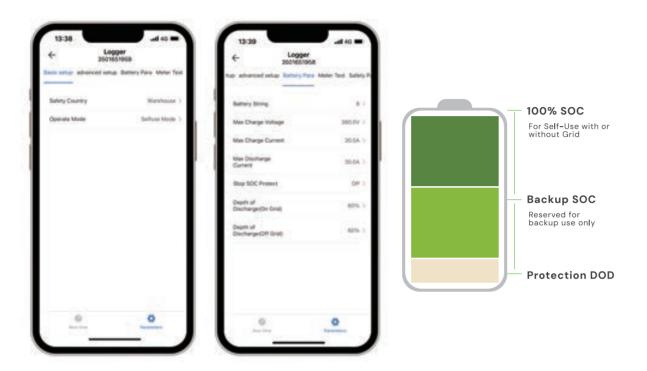
DYNESS monitoring platform provides insight into household PV production and consumption, displaying the power flow between the PV array, battery, grid and housing electrical consumption loads, tracking real-time system data. Besides, the web monitoring platform is also a good option for checking data, which provides a more detailed running system, historical data, and operations analysis.

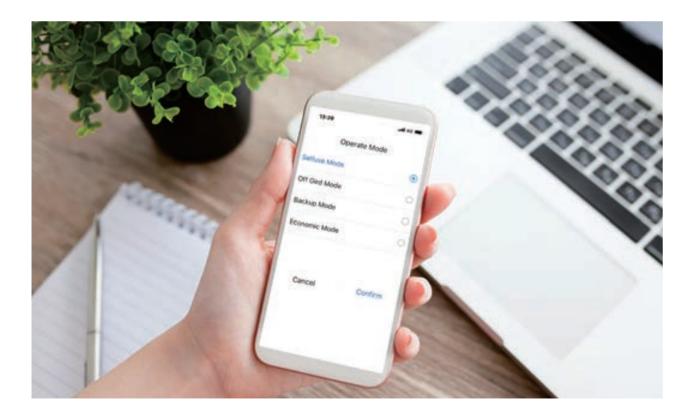


♦ Battery Performance Management

You are able to manage battery use based on your willings.

Battery could be commissioned for self use to reduce electricity billings, or part of battery capacity could also be reserved for backup use only to protect your house from unexpected electricity blackout.

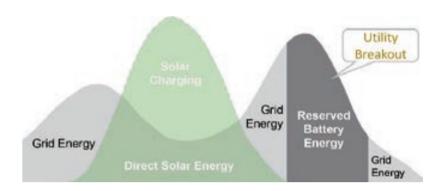




Multiple Operation Mode

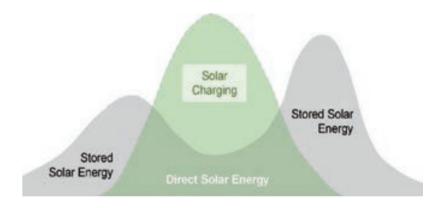
Backup Mode

The backup system works as a supplementary part of the Grid, supporting energy consumption to consumers.



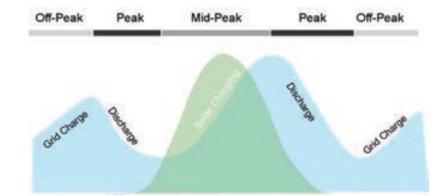
Self-use Mode

Self-use mode works for meeting the daily energy consumption all the battery energy can be output to loading ends.



Economic Mode

The economic mode is also the mode of TOU. The system discharges when the electricity price is high and vice versa for charging.



Flexible

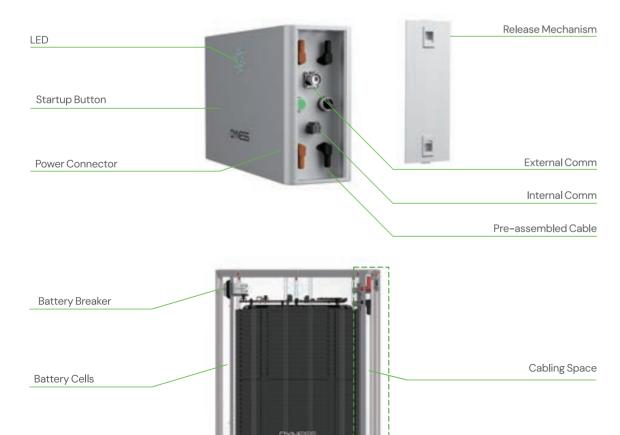
♦ Flexible Space Options

DYNESS Orion system, Tower-US and Powerbox-US series can meet different installation requirements, displaying types of physical combination forms, minimizing the space needs, which satisfy complicated conditions, like garage walls or basements.





All new smaller footprint design, the whole system for installing narrow space.



By adopting a smaller footprint design, the entire system is fit for narrow-space installation. The design of a single battery module with a bracket reduces the pressure of the entire battery module on the mounting wall. Standard cables on the Orion system ensure the plug & play installation (Tower-US also shares the plug & play function and cordless design). Each Orion battery module has its switch.



Reduce Soft Cost: Easy Installation and O&M

Installation contributes to most of the system's soft spend. An easy installation design helps to reduce entire system costs.

♦ Easy Installation

DYNESS battery is designed to reduce installation & commissioning time and prevent faulty installations.

Single Battery Module Weight: 127.9lb Energy Range: 9.9–19.9kWh







◆ Flexible Combination

- ▶ DYNESS battery system stores solar energy, to provide power supply during blackouts.
- ▶ Fit for household consumption demand from 10kWh to 20kWh.
- ▶ Flexible battery capacity combinations.
- ► Automatic switch to backup mode.
- ▶ Support Full-House backup and Essential backup scenarios.







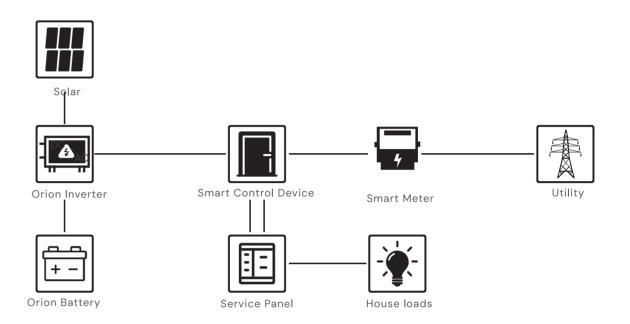






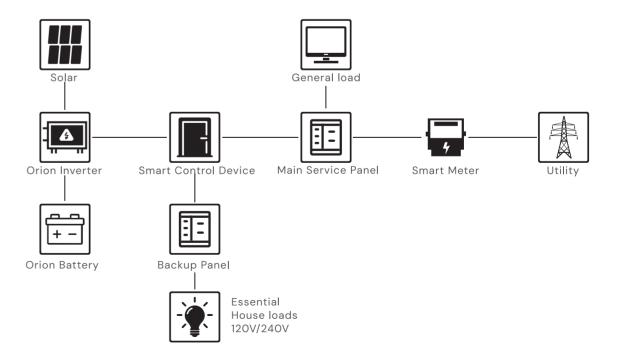
◆ Full Backup

DYNESS provides a Smart Control Device that can automatically switch and cover the entire load of your house during blackouts, especially when multiple loading consumption needs to be supported.



♦ Essential Backup Solution

It is clear which loads will need power, or if you want to confirm that the essential loads have sufficient power during a blackout, the Essential Backup system will be a good choice.



Application Cases

Dyness has provided safe, reliable, and high-quality products and services to over 500,000 users



Residential Application Cases



• 40.96kWh 8 units DL5.OC South Africa



• **61.44kWh** 12 units DL5.0C Yemen



• 19.2kWh 4 units A48100 South Africa



• 14.21kWh Tower T14 Sri Lanka



• 10.66kWh Tower T10 Czech Republic



• 48kWh 10 units A48100 Lebanon



• 10.24kWh Powerbox G2 Romania



• 28.6kWh 2 units PowerBrick Pakistan



• **61.44kWh**6 units Powerbox Pro South Africa

C&I Application Cases



100kW/307kWh Brazil PowerRack HV4 Dynamic capacity expansion (peak-shaving) + PV consumption



Netherland DH200F

200kW/430kWh Peak-shaving + PV consumption+ Charging pile



 Hungary DH200Y

500kW/1160kWh Self-generation and self-use+PV





Bulgaria

112.64 kWh

PowerRack HV4F Peak-to-valley arbitrage+Self-generation and self-use



 The Netherlands DH200F

100kW/215kWh PV consumption (self-use)



 Thailand 71kWh/50kW STACK100



• The Netherlands 50kW/100kWh DH100F

PV consumption

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After-sales Service

Online + offline comprehensive operation and maintenance service system



Offline

8 Supporting Languages
13 Service Centers

Worldwide Service Locations



Online

Sophisticated Online Service Platform 200+ Online Service Engineers https://support.dyness.com



Professional

Localized technical support and costomized service solutions.



Efficient

After-sales service response time is less than 1 hour.



Responsible

Customer centricity and 98% customer satisfaction

