

E-Lapis 1500W

With Dyness E-Lapis 1500W you can go anytime, anywhere!



- ◆ **Large capacity:** 1536Wh battery energy, which can provide long time continuous power support;
- ◆ **Multi-output interfaces:** including 1500W pure sine wave AC output, USB-A, USB-C and other output interfaces, which facilitate the simultaneous charging of multiple electronic devices;
- ◆ **Multi-safety protection:** built-in multiple safety protection mechanisms to avoid damage caused by unexpected situations;
- ◆ **Multiple charging methods:** support DC input, solar input, car charging, convenient for outdoor use;
- ◆ **Lightweight and portable:** 33.8lbs, 15*9.4*12.7 inches, easy to carry;
- ◆ **Long life:** 2000 charge and discharge cycles, long service life.

Phone (12Wh)
≈130 recharges

Pad (30Wh)
≈51.5 recharges

Laptop (50Wh)
≈30.5 recharges

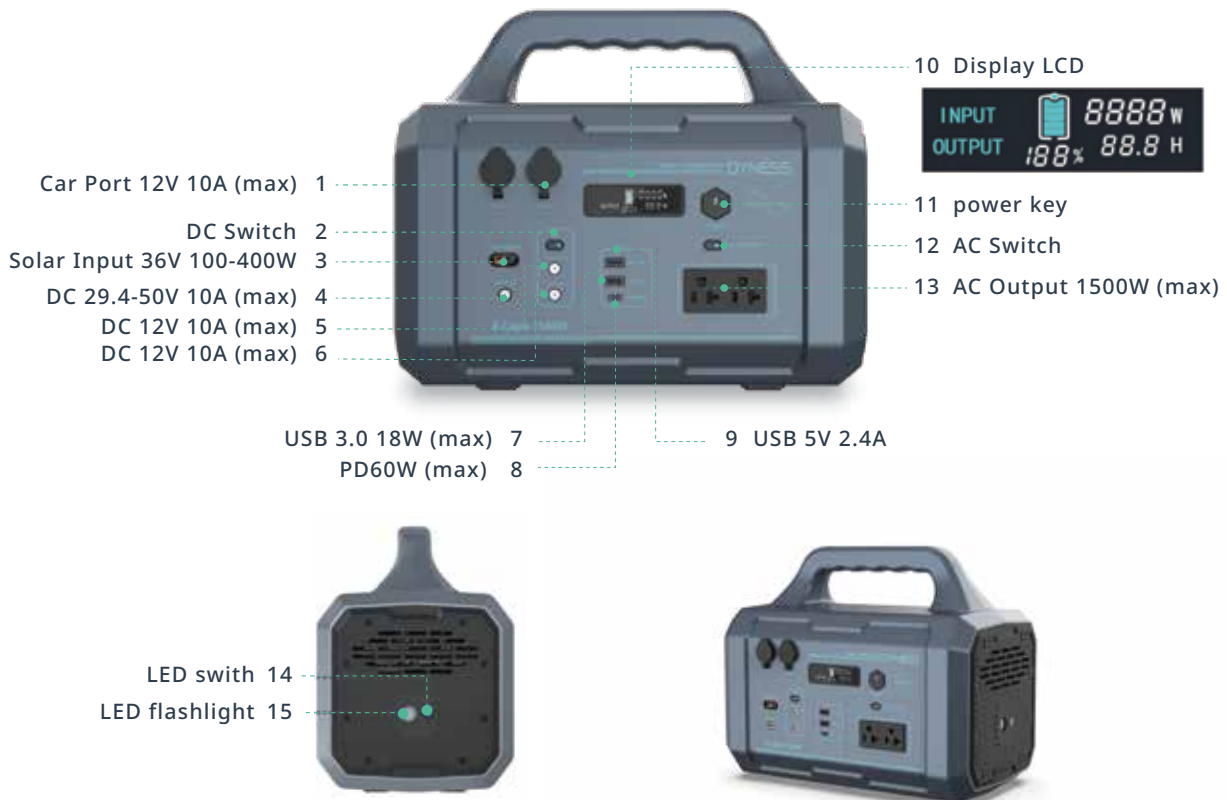
LED Light (5Wh)
≈80 hours

TV (100Wh)
≈15 hours

Mini Fridge (60Wh)
≈25.5 hours



Panel Function Description



Technical Specifications

Nominal Capacity	1536Wh
Cell Material	LiFePO4
Size	15*9.4*12.7 inches
Weight	33.8lbs
Certification	FCC/CE/PSE/UN38.3/MSDS
Cycle Life	2000
Working Temp.	32-122°F
Storage Temp.	14-149°F
Max AC Output	1800W

E-Pearl 1000W

With Dyness E-Pearl 1000W you can go anytime, anywhere!



- ◆ **Large capacity:** 1075Wh battery energy, which can provide long time continuous power support;
- ◆ **Multi-output interfaces:** including 1000W pure sine wave AC output, USB-A, USB-C and other output interfaces, which facilitate simultaneous charging of multiple electronic devices;
- ◆ **Multi-safety protection:** built-in multiple safety protection mechanisms to avoid damage caused by unexpected situations;
- ◆ **Multiple charging methods:** support DC input, solar input, car charging, convenient for outdoor use;
- ◆ **Lightweight and portable:** 27.28lbs, 14.96*8.43*12.17 inches, easy to carry;
- ◆ **Long life:** 2000 charge and discharge cycles, long service life.



Phone (12Wh)
≈87 recharges



Pad (30Wh)
≈34.5 recharges



Laptop (50Wh)
≈20.5 recharges



LED Light (5Wh)
≈53.5 hours



TV (100Wh)
≈10 hours



Mini Fridge (60Wh)
≈17 hours



Panel Function Description



Technical Specifications

Nominal Capacity	1075Wh
Cell Material	LiFePO4
Size	14*8.5*11.8 inches
Weight	27.28lbs
Certification	FCC/CE/PSE/UN38.3/MSDS
Cycle Life	2000
Working Temp.	32-122°F
Storage Temp.	14-149°F
Max AC Output	1500W

Powerbox-US & Hoymiles HYS-LV-USG1

Powerbox-US is an LFP energy storage battery with safe performance and long cycle life, offering various capacity options to meet different customers' application needs. With a unique and compact design, it can be installed on the floor or wall-mounted depending on the client's willingness. DYNESSE cooperates with Hoymiles Power Electronics Inc, forming a complete kit with their high-performance inverter; the Powerbox-US ESS can maximize the efficiency of power production and conversion. The whole ESS gets completed US certification, which maintains the safety and stability needs and requirements, serving various application scenarios.

Powerbox-US & Hoymiles HYS-LV-USG1 Highlights and Features:



Modular design, built-in 10kWh, 200Ah modules



Support up to 5 Powerbox-US in parallel connection



NEMA 4X for outdoor application



Wall-mounted or floor-standing



OTA Updating



The same size, more energy and less weight, less price



Max. Efficiency 97.6%, CEC Efficiency 97.0%



Double MPPT tracker, up to 16A MPPT current



DC/AC ratio up to 150%



Ultra-light for easy installation and space-saving



Support both DC-coupled and AC-coupled system



Built-in dry contact flexibly set to earth fault alarm, load control or generator control



EMS has integrated with self-consumption, economic and backup modes for multi-scenario application

Model	Powerbox-US
Battery Type	LiFePO4
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
Max.Charge/Discharge Current	150A
Peak Power Charge/Discharge Current	200A(15s)
Recommended Depth of Discharge	90%
Weight	227lbs
Dimension [W*H*D, inch]	21.85*36.54*8.27
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
Cycle Life	≥6000 Cycles
Enclosure Protection	NEMA 4X
Expansion	Up to 5 units in parallel
Color	White
Alarms	Overcharge/Overdischarge/Overcurrent/Overtemperature/Short Circuit
Safe & Protection	Each system has smart BMS, breaker embedded in system
Pros	Can be used in both off-grid and hybrid setups, compact design, modular expansion
Compatible Inverters	Hoymiles
Certification & Safety Standard	UN38.3/UL1973/UL9540A/UL9540

Model

HYS-3.8LV-USG1 HYS-4.8LV-USG1 HYS-6.0LV-USG1 HYS-7.6LV-USG1 HYS-9.6LV-USG1 HYS-11.5LV-USG1

Protection

Anti-islanding Protection	Integrated
PV Arc Fault Detection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Compliant MLRSD Products	Integrated
Insulation Resistor Detection	Integrated
Residual Current Monitoring Unit	Integrated
AC Over Current Protection	Integrated
AC Short Current Protection	Integrated
AC Overvoltage and Undervoltage Protection	Integrated

General

Dimensions (W × H × D)	19.8 × 23.6 × 7.95 inch (502 × 600 × 202 mm)	19.8 × 29.1 × 7.95 inch (502 × 740 × 202 mm)
Weight	72.7 lbs (33 kg)	83.8 lbs (38 kg)
Mounting	Wall Mounting	
Operation Temperature (°F)	[-13 to +149 (> 113, derating)]	
Relative Humidity	0-95%, no condensing	
Altitude (m)	≤ 2000	
Cooling	Natural convection	
Protection Degree	Type 4X	
Noise (dB [A])	< 40	
User Interface	LED & App	
Communication with BMS	RS485, CAN	
Communication with Meter	RS485	
Communication Interface	RS485, Wi-Fi/Ethernet/4G (optional)	
Digital Input/output	1 × DI, 2 × DO	
Isolation Method (Solar / Battery)	Transformerless / High-frequency Isolation	

Certifications and

Grid Regulation	IEEE 1547-2018, IEEE 1547.1-2020, SRD2.0
Safety Regulation	UL 1741, CSA C22.2 No.107.1, UL 1741 CRD, UL1741 SB
AFCI	UL 1699B
Software Approval	UL 1998
EMC	FCC Part 15 Class B



Tower-US & Solis S6-US

DYNESS Tower series has flexible installation options. With a cordless design, the Tower system supports a plug & play connection for easy installation and movement. Its OTA function can realize firmware upgrading with one set. DYNESS cooperates with Ginlong Technologies Corporation, forming a complete kit with their high-performance inverter; the Tower ESS can maximize the efficiency of power production and conversion. The whole ESS gets completed US certification, which maintains the safety and stability needs and requirements serving various application scenarios.

Tower-US Highlights & Features:



High Voltage
High system Efficiency



Expandable Energy
7.1kWh-56.8kWh
Max. 4 clusters in parallel



Wireless Connection
Pile up design, easy to install & move



Highly Flexible



Intelligent Design



Efficient Performance



Safe and Reliable

Model	Tower T7-US	Tower T10-US	Tower T14-US
Module Number	2	3	4
Nominal Capacity		37Ah	
Nominal Battery Energy	7.10kWh	10.66kWh	14.21kWh
Nominal Voltage	192V	288V	384V
Maximum Continuous Discharge Power	4.26kW	6.39kW	8.52kW
Maximum Continuous Charge Power	4.26kW	6.39kW	8.52kW
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	412lb
Max Depth of Discharge		100%	
Charging Temp. Range		32°F - 122°F	
Discharging Temp. Range		14°F - 122°F	
Communication		CAN/RS485	
Warranty		10 Years	
Warranty Document Supplied		Yes	
Cycle Life		≥6000 Cycles	
Enclosure Protection		NEMA 4X	
Color		White	
Alarms	Overcharge/Overdischarge/Overcurrent/Overtemperature/Short Circuit		
Pros	Can be used in both off-grid and hybrid setups compact design modular expansion		
Battery Module Type		HV9637	
Module Connection Method		in series	
Compatible Inverters		Solis	
Certification	UN38.3/UL1973/UL9540A/UL9540		

[1]Test conditions:0.2C Charging/Discharging,@77 ℉,80% DOD

[2]Maximum Continuous Discharge/Charge Power when communicate with inverter is 0.6C

S6-EH1P(3.8-11.4)K-H-US

Model	S6-EH1P(3.8-11.4)K-H-US				
DC Input (PV)	3.8K-H	5K-H	7.6K-H-L	10K-H	11.4K-H
Models					
Max. input voltage [V]			600		
Rated voltage [V]			380		
Start-up voltage [V]			80		
MPPT voltage range [V]			80-520		
Max. input current [A]			16		
Max. short circuit current [A]			25.6		
MPPT number/Max. input strings number	#2/1	#3/1		#4/1	

Model		S6-EH1P(3.8-11.4)K-H-US				
Li-on Battery						
Max. charge/discharge power [kW]	3.8	5	7.6	10	11.4	
Recommended battery models	T7-US	T10-US	T14-US	T17-US	T17-US	
Nominal voltage [V]	192	288	384	480	480	
Nominal capacity [Ah]			37			
Nominal battery energy [kWh]	7.1	10.66	14.21	17.76	17.76	
Estimated charging time (approx.) [h]	2	2	2	2	1.5	
Output AC (Grid)						
Rated output power (Max.) [kW]	3.8(3.8)	5(5)	7.6(7.6)	10(10)	11.4(11.4)	
Rated output voltage [V]			240			
Rated grid frequency [Hz]			60			
Rated output current (Max.) [A]	15.8(15.8)	20.8(20.8)	31.7(31.7)	41.7(41.7)	47.5(47.5)	
Power factor	>0.99 (0.8 leading – 0.8 lagging)					
Output AC (Back-up)						
Rated output power [kW]	3.8	5	7.6	10	11.4	
Max. apparent output power [kVA]	6.1(10s)	8(10s)	12.2(10s)	16(10s)	18.2(10s)	
Rated grid output current [A]	15.8	20.8	31.7	41.7	47.5	
Max. output current [A]	25.4	33.3	50.7	66.7	76	
Back-up switch time			<10ms			
Rated output voltage [V]			240V(L1-L2)			
Rated frequency [Hz]			60			
Max. allowable phase imbalance			100%			
AC Input (Grid)						
Input voltage range (V)			211-264			
Max. input current	23.8A	31.2A	47.6A	62.6A	71.3A	
Frequency range			58.8Hz-61.2Hz			
AC Output (Backup and Off-grid)						
Rated output power	3.8kW	5kW	7.6kW	10kW	11.4kW	
Max. apparent output power	6.1KVA,10sec	8KVA,10sec	12.2KVA,10sec	16KVA,10sec	18.2KVA,10sec	
Back-up switch time			<10 ms			
Rated output voltage (L1-L2)			240 V			
Rated output voltage (L1/L2-N)			120 V			
AC output voltage range			211-264 V			
Rated grid frequency			60 Hz			
Frequency range			55-65 Hz			
Rated AC output current	15.8A	20.8A	31.7A	41.7A	47.5A	
Max. output overcurrent protection, 10 sec	25.4A	33.3A	50.7A	66.7A	76A	
Max. allowable phase imbalance			100%			
Backup support configurations			Whole-home and dedicated loads			
Power factor			>0.99 (0.8 leading - 0.8 lagging)			
THDv (@linear load)			<3%			
Efficiency						
PV Max. efficiency			97.60%			
PV CEC efficiency			97.20%			
Battery charged by PV Max. efficiency			98.50%			
Battery charged/discharged to AC Max. efficiency			97.00%			
Protection						
Ground fault detection			Yes			
Residual (leakage) current detection			Yes			
Integrated AFCI (DC arc-fault circuit protection)			Yes			
DC reverse-polarity protection			Yes(PV only)			
Rapid Shutdown NEC 2017			Integrated SunSpec-certified Transmitter			
Compatible RSD Receivers			See MLRSD Compatibility Sheet			
Protection class/Over voltage category			I/II			
Manual inverter bypass switch			Yes			

Model

S6-EH1P(3.8-11.4)K-H-US

General Data

Dimensions (W*H*D)	19.23*32.97*8.62 in (488.5*837.5*219mm)	21.87*34.88*8.62 in (555.5*866*219mm)
Weight	65.16 lbs (29.56 kgs)	89.59 lbs (40.64 kgs)
Mounting type		Wall Bracket
Topology		Transformerless
Self-consumption (night)		< 20 W
Operation temperature range		[-31 °F to 140 °F (-25°C to 60°C)]
Ingress protection		TYPE 4X (IP66)
Noise emission		<30 dB(A)
Cooling method		Natural convection
Max. operation altitude		13,120 ft (4000 m)
Compliance	"UL 1741, UL 1741 SA, UL 1741 SB, IEEE 1547-2018, IEEE 1547.1-2020, UL 1699B, UL 1998, California Rule 21, HECO Rule 14H*, NEC 690.12-2020, CAN/CSA C22.2107.1-1, FCC Part 15 Class B"	
Generator support		Yes

Features

DC connection	1 in. knockouts for conduit (x2) on the side and bottom; Spring clamp terminals
AC connection	1.5 in. knockouts for conduit (x3) on the side and bottom; Spring clamp terminals
Interface	LED indicator lights, Bluetooth/Mobile application
Monitoring platform	SolisCloud (modbus map and API sharing available upon request)
Integrated ANSI C12.20 revenue grade meter	Optional (Continental Control Systems RWND-3D-240-MB)
Communication	RS485, Cellular, Wi-Fi, Optional: LAN
Integrated RSD Transmitter Brands	See the MLRSD Compatibility Sheet