



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-170.4kWh
Max. 12 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)					
Models	3.8K-H	5K-H	7.6K-H-L	10K-H	11.4K-H
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			
Energy Storage					
Battery type	Lithium-ion				
Battery voltage range	120-500 V				
Maximum charge/discharge current	25 A		50 A		
Battery communication	CAN/RS485				
Number of batteries per inverter	2-4				
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%				
Protetion					
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 Compatibilty 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	