

Tower S3

Tower series is specifically designed for large residential, as well as small commercial and industrial applications, offering an energy capacity range from 7.1 kWh to 255.72 kWh. It has been market-verified for 5 years with 0 accidents.



Flexible Expansion

Up to 12 clusters in parallel,
7.1kWh~255.72kWh capacity



Easy Installation

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



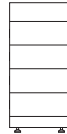
IP54 Protection

Indoor&outdoor installations



Smart Management

Real-time system monitoring,
remote control, OTA updates

Model	Tower TS7	Tower TS10	Tower TS14	Tower TS17	Tower TS21
Product Pattern					
Battery Module Type	LiFePO ₄	LiFePO ₄	LiFePO ₄	LiFePO ₄	LiFePO ₄
Battery Module Quantity	2	3	4	5	6
Nominal Energy	7.10 kWh	10.66 kWh	14.21 kWh	17.76 kWh	21.31kWh
Usable Energy	6.745kWh	10.127kWh	13.499kWh	16.872kWh	20.245kWh
Operating Voltage	168~216V	252~324V	336~432V	420~540V	504~648V
Nominal Voltage	192V	288V	384V	480V	576V
Nominal Capacity	37Ah	37Ah	37Ah	37Ah	37Ah
Max. Continuous Charge/Discharge Power *	4.26 kW	6.39 kW	8.52 kW	10.65 kW	12.78 kW
Recommended Depth of Discharge (DOD)	95%	95%	95%	95%	95%
Dimensions [W/D/H](mm)	504/380/720	504/380/920	504/380/1120	504/380/1320	504/380/1520
Net Weight [kg]	103kg	143kg	183kg	223kg	263kg
Charging Temperature Range	0~50°C				
Discharging Temperature Range	-10~50°C				
Communication	CAN/RS485				
Cycle life * *	≥6000 Cycles				
Protection Level	IP54				
Battery Module Name	HV9637S				
Expansion	Max. 12 towers can be connected in parallel				
Certification	CE-EMC/CE-RED/IEC62040/IEC62619/IEC62477/IEC63056/UN38.3				
Compatible Inverters	Ingeteam/Solis/GoodWe/Solplanet/SAJ/DEYE/Hoymiles/SOLINTEG/Kaco ect.				

* Maximum Continuous Discharge/Charge Power when communicating with inverter is 0.6C

** Test conditions:0.2CCharging&Discharging.@25°C,95%DOD,70%EOL





Tower S3

USER MANUAL

HV Battery System
Tower S3-TS7/TS10/TS14/TS17/TS21
192-576V

Model	TS21	TS17	TS14	TS10	TS7
(in communication with inverter)					
Discharge temperature [°C]	-10~50	-10~50	-10~50	-10~50	-10~50
Charge temperature [°C]	0~50	0~50	0~50	0~50	0~50
Max discharge power [kW]	21.31	17.76	14.21	10.66	7.1
Max charge & discharge power [kW] (in communication with inverter)	12.78	10.65	8.52	6.39	4.2
Short circuit current [kA]	1.5	1.5	1.5	1.5	1.5
IP protection class	IP54	IP54	IP54	IP54	IP54
Dimensions [mm]	504*1520*380	504*1320*380	504*1120*380	504*920*380	504*720*380
Weight [kg]	263	223	183	143	103
Battery module name	HV9637S	HV9637S	HV9637S	HV9637S	HV9637S
Number of battery modules (pcs)	6	5	4	3	2

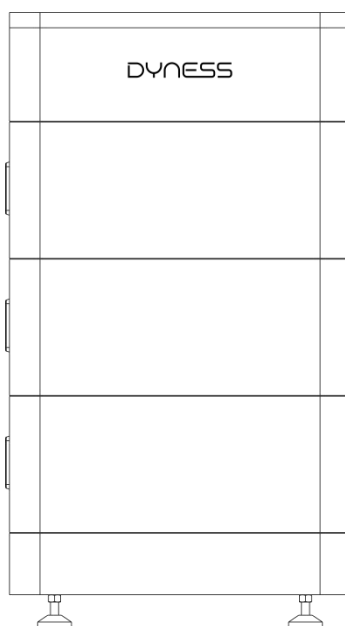


Figure 2-1 Tower S3 TS10

Battery Module

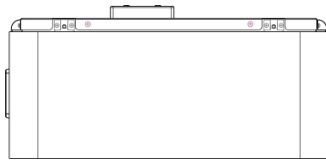


Figure 2-2 Battery module

Table 2-2 Product parameters

Module name	HV9637S
Cell technology	Li-ion (LFP)
Battery module energy (kWh)	3.552
Battery module voltage (V/DC)	96
Battery module capacity (Ah)	37
Number of battery module cells (pcs)	30
Battery cell power (Wh)	118.4
Battery cell voltage (V/DC)	3.2
Battery cell capacity (Ah)	37
Number of battery module cells in series (pcs)	30
Battery module charge voltage (V/DC)	108
Battery module charge current (normal) [A]	18.5
Battery module charge current (peak) [A]	22
Battery module discharge minimum voltage (V/DC)	84
Battery system discharge current (standard) [A]	7.4
Battery module discharge current (normal) [A]	18.5
Battery module discharge current (max) [A]	37
Dimensions (W*D*H, mm)	380*504*240
Pollution degree (PD)	II
Operating temperature (°C)	0~55
IP protection class	IP54

Module name	HV9637S
Weight (kg)	40

Composite
connector - Plug

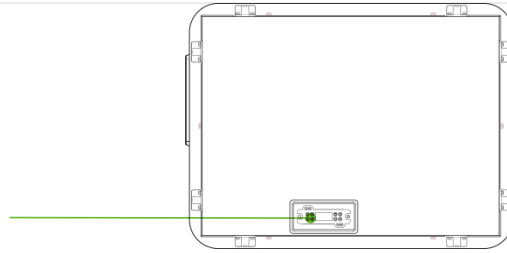


Figure 2-3 HV9637S connections on top

Composite
connector-Socket

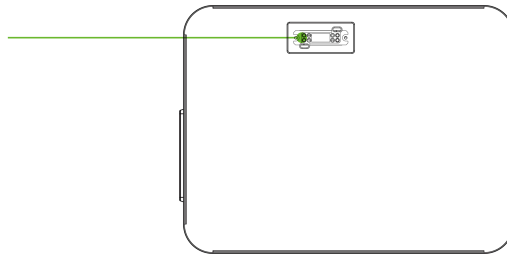


Figure 2-4 HV9637S connections at bottom

Table 2-3 Interface Definition

Name	Definition
Composite connector - Plug	Battery module output and communication interface
Composite connector - Socket	Battery module output and communication interface

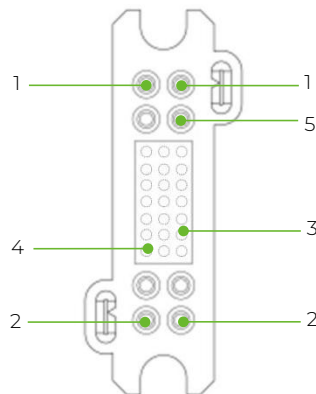


Figure 2-5 Composite Connector-Plug

Before unpacking, the total number of boxes must be reconciled according to the shipping list attached to each package, and the boxes must be checked for good condition.

Handle all items carefully and protect the surface coating of the items.

After opening the boxes, the installer should read the technical documentation, verify the list, ensure that the items are complete and undamaged according to the configuration table and packing list. If there is damage to the internal packaging, it should be checked and recorded in detail.

Table 3-1 Packing List

	Item	Specifications	Quantity	Image
	BDU	Tower S3 SBDU	1	
A	Communication cable to inverter	Standard, black /L 2000mm /RJ45 plug at both sides	1	
	Communication cable to inverter or parallel communication	Standard, black /L 2000mm /CAN plug at both sides	1	
	Power cable-positive	Positive cable 6mm ² , red, 2m	1	
	Power cable-negative	Negative cable 6mm ² , black, 2m	1	
	Power cable connector	To positive battery pole	1	
	Power cable connector	To negative battery pole	1	
	Communication connector to BDU	RJ45 waterproof connector	2	
	CAN resistor	RJ45-CAN-120, Pin7&8	1	