



STORAGE SYSTEM - INDOOR MODULAR 25.6KWH/81.9KWH

Simple. Reliable. Efficient.



High
Performance



Smart Battery
Management



Long
Lifecycle



Modular &
Scalable Design



Thermal
Protection



High Voltage
System

**ESS-TT-ID-25.60KWH / ESS-TT-ID-40.96KWH / ESS-TT-ID-61.44KWH /
ESS-TT-ID-81.92KWH**

TommaTech's high-voltage battery system offers an efficient solution for both commercial and industrial energy storage needs, with its modular structure, smart safety features, and expandable capacity. Equipped with LFP cell technology, the system delivers over 6000 charge-discharge cycles, scalable capacity up to 81.92 kWh, and reliable performance across a wide temperature range. With support for CAN and RS485 communication protocols, remote firmware updates, and easy installation, this future-ready system is fully optimized for seamless compatibility with TommaTech's Maxi Series M50K and M80K hybrid inverter models.



ESS-TT-ID-25.60KWH

ESS-TT-ID-40.96KWH

ESS-TT-ID-61.44KWH

ESS-TT-ID-81.92KWH

MAIN PARAMETER

Cell Chemistry		LiFePO ₄			
Module Energy (kWh)		5.12			
Module Nominal Voltage (V)		51.2			
Module Capacity (Ah)		100			
Battery Module Number		ESS-TT-ID-25.60KWH	ESS-TT-ID-40.96KWH	ESS-TT-ID-61.44KWH	ESS-TT-ID-81.92KWH
Battery Module Qty In Series (Optional)		5 (Min)	8	12	16
System Nominal Voltage (V)		256	409.6	614.4	819.2
System Operating Voltage (V)		220 ~ 292	352 ~ 467.2	528 ~ 700.8	704 ~ 934.4
System Energy (kWh)		25.6	40.96	61.44	81.92
System Usable Energy (kWh) ¹		23.04	36.86	55.3	73.73
Rated DC Power (kW)		25.6	40.96	61.44	81.92
Charge / Discharge Current (A) ²	Recommend	50			
	Nominal	100			
	Peak Discharge (2 mins, 25°C)	125			
Working Temperature (°C)		Charge : 0 ~ 55 / Discharge : -20 ~ 55			
Status Indicator		Yellow : Battery High Voltage Power On Red : Battery System Alarm			
Communication Port		CAN2.0 / RS485			
Humidity		5% ~ 85%RH			
Altitude		≤3000m			
IP Rating of Enclosure		IP20			
Weight Approximate (kg)		249	387	571	755
Installation Location		Rack Mounting			
Storage Temperature (°C)		0 ~ 35			
Recommend Depth of Discharge		90%			
Cycle Life		25±2°C, 0.5C / 0.5C, EOL70%≥6000			
Warranty ³		5 years			
Certification		UN38.3			

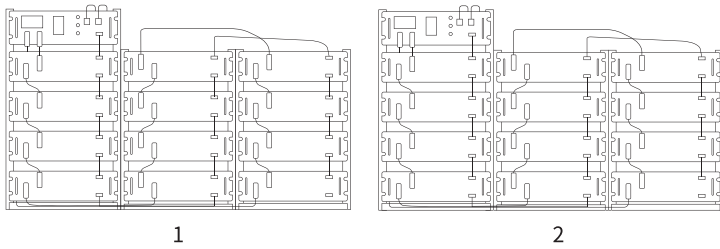
1. DC Usable Energy, test conditions : 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

2. The current is affected by temperature and SOC.

3. The warranty is due whichever reached first of warranty period or life cycle power.

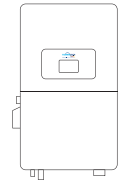
Typical Application Scenarios

ESS-TT-ID-61.44KWH

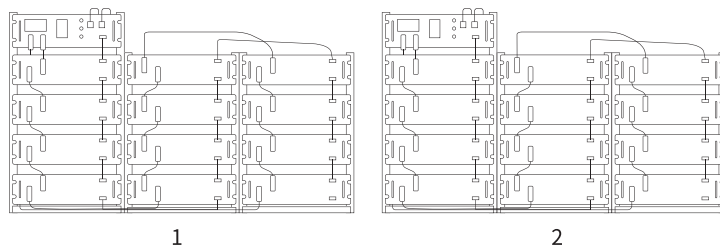


Maximum support for 16 racks of batteries in parallel

TommaTech M50K
Hybrid Inverter

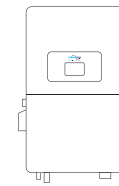


ESS-TT-ID-61.44KWH



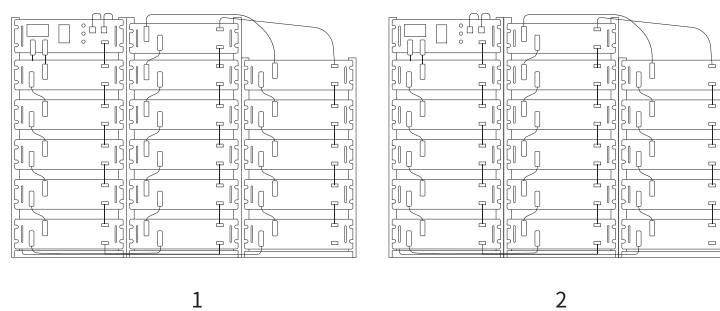
Maximum support for 10 inverters in AC parallel operation

TommaTech M50K
Hybrid Inverter



× 10

ESS-TT-ID-81.92KWH

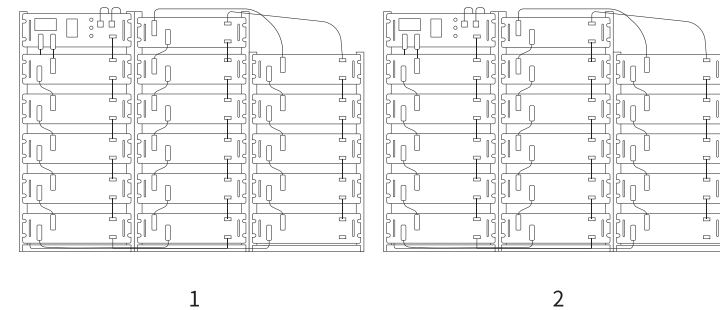


Maximum support for 16 clusters of batteries in parallel

TommaTech M80K
Hybrid Inverter

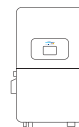


ESS-TT-ID-81.92KWH



Maximum support for 10 inverters in AC parallel operation

TommaTech M80K
Hybrid Inverter



× 10