

POWER AND ENERGY STORAGE SYSTEMS



ALL UNDER ONE SERIES
3.6KW / 7.2KW / 11KW

TommaTech offers its users a unique energy experience by integrating battery and inverter with its new generation solution that surpasses traditional energy systems. The “All Under One” Power and Energy Storage System, created using LFP technology with the capability of being charged from solar panels, helps manage energy production in the most efficient way through smart inverter technology. Utilizing clean energy from solar panels, “All Under One” adopts an eco-friendly approach and provides sustainable energy.



- **Sustainable Energy**
Thanks to its ability to be charged from solar panels, it provides an eco-friendly and sustainable energy source.
- **Uninterrupted Power**
In addition to solar panels, you can also provide energy support with grid and generator support.
- **Efficient Energy Management**
Smart inverter technology optimizes energy consumption and reduces costs.
- **Easy Integration**
Battery storage inverter systems can be easily integrated into your existing energy infrastructure.
- **Eco-Friendly**
Energy obtained from renewable sources such as solar energy minimizes environmental impacts.

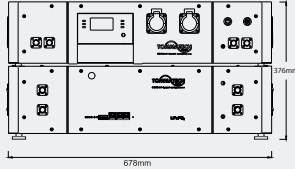
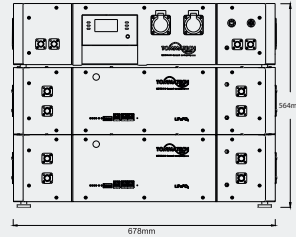
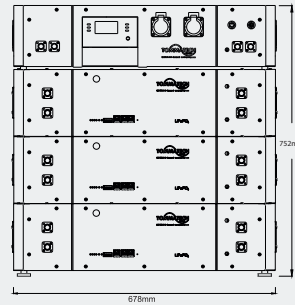
SYSTEM TECHNICAL SPECIFICATIONS

MODEL	TT-INV-MDL-3.6K-24V (1 pc) + TT-MDL-24V-200Ah (1 pc)	TT-INV-MDL-7.2K-48V (1 pc) + TT-MDL-48V-100Ah (2 pcs)	TT-INV-MDL-11K-48V (1 pc) + TT-MDL-48V-100Ah (3 pcs)
Total System Power [kW]	3.6	7.2	11
Total System Capacity [kWh]	5.12	10.24	15.36

INVERTER TECHNICAL SPECIFICATIONS

Nominal Power [VA/W]	3600/ 3600	7200/ 7200	11000/11000
Parallelization Function	No	Yes, 6 pcs	
AC INPUT			
Voltage [V AC]	230		
Selectable Voltage Range [V AC]	170-280 (For Personal Computers) 90-280 (For Home Appliances)		
Nominal Frequency [Hz]	50 /60 (Automatic Detection)		
DC INPUT			
Maximum Input Current [A]	18	18	18
Maximum Short Circuit Current [A]	22	22	22
MPPT Operating Voltage Range [V DC]	120 ~ 450	90 ~ 450	
Maximum PV Input Power [W]	4000	8000 (4000 x 2)	11000
Max. PV Array Open Circuit Voltage [V DC]	120 ~ 450	90 ~ 450	
Number of MPPT	1	2	2
Strings per MPPT	1	1	1
AC OUTPUT			
AC Voltage [V AC]	230 ± 5%		
Surge Power [VA]	7500	15000	22000
Efficiency [%]	90-93		
Transfer Time [ms]	15 (For Personal Computers) 20 (For Home Appliances)	10 (For Personal Computers) 20 (For Home Appliances)	
Output Waveform	Pure Sine Wave		
Standby Consumption [W]	< 45	< 70	
BATTERY			
Battery Voltage [V DC]	24	48	
Float Charge Voltage [V DC]	27	54	
Overcharge Protection [V DC]	33	66	33
SOLAR & AC CHARGING			
Solar Charger Type	MPPT		
Maximum Solar Charging Current [A]	80	150	
Maximum AC Charging Current [A]	80	150	
Maximum Charge Current [A]	80	150	
PHYSICAL CHARACTERISTICS			
Net Weight [kg]	14.1	18.4	
Communication Interface	USB/RS232/RS485/Wi-Fi/Dry Contact		
ENVIRONMENT LIMIT			
Humidity [%]	5 ~ 95 Relative Humidity (Non-Condensation)		
Operating Temperature [°C]	-10 ~ 50		
Storage Temperature [°C]	-15 ~ 60		
STANDARD			
Compatibility	CE		

BATTERY TECHNICAL SPECIFICATIONS

AC INPUT			
Nominal Voltage [V]	25.6	51.2	51.2
Nominal Capacity [Ah]	200	200	300
Nominal Energy [Wh]	5120	10240	15360
Recommended Charging Current [A]	30	60	90
Maximum Charging Current [A]	50	100	150
Recommended Charging Voltage [V]	28.4	56.8	56.8
Maximum Charging Voltage [V]	29.2	58.4	58.4
Recommended Discharge Current [A]	50	100	150
Maximum Discharge Current [A]	100	200	300
Discharge Cut-off Voltage [V]	22.4±0.2	44.8±0.2	44.8±0.2
CYCLE SPECIFICATIONS (at 25°C)			
100% D.O.D		2000 Cycles	
50% D.O.D		3400 Cycles	
30% D.O.D		4800 Cycles	
SAFETY AND STANDARDS			
Overcharge Protection		Yes	
Overdischarge Protection		Yes	
Overcurrent Protection		Yes	
Short Circuit Protection		Yes	
Overtemperature Protection		Yes	
Temperature Sensor		Yes	
Adjustable Charge / Discharge Current		Yes	
Grounding		Yes	
Cell Type		LFP 32700 Cylindrical	
Safety Standards		IEC 61960 / 62133-2	
ENVIRONMENTAL CONDITIONS			
Charging Temperature [°C]		0 ~ +60	
Discharge Temperature [°C]		-20 ~ +60	
Storage Temperature [°C]		0 ~ +35	
Humidity (Non-Condensing)		Max. 95%	
ADDITIONAL INFORMATION			
Dimensions (WxDxH) [mm]	678x376x189	678x564x189	678x752x189
Weight [kg]	55.5±0.5	111±0.5	165.5±0.5
Battery Connector	IP67 Protected Positive (+) and Negative (-) Pole Connector		
Serial Connection	No		
Parallel Connection	Yes (Min. 1, Max. 16 pcs)		
Communication	CAN / RS485		
Casing Material	Metal		
Product Technical Drawings	<p>TT-INV-MDL-3.6K-24V (1 pc) + TT-MDL-24V-200Ah (1 pc)</p> 	<p>TT-INV-MDL-7.2K-48V (1 pc) + TT-MDL-48V-100Ah (2 pcs)</p> 	<p>TT-INV-MDL-11K-48V (1 pc) + TT-MDL-48V-100Ah (3 pcs)</p> 

* In this system, it is recommended a maximum of 4 batteries for parallel connection.

* TommaTech GmbH reserves the right to change the specification of product without prior notice.

* Upon request, TommaTech GmbH can offer products with the desired power rating.