

*The
Champion's
Choice*



Higher · Faster · Smarter

T-MAX PLUS H-V1-E

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM

The T-MAX PLUS-H-V1-E accommodates "All-in-one" design philosophy, integrating battery with longevity, intelligent BMS, high performance PCS, preventive safety system, smart distribution system and heat dissipation management system into one standard container for standardized manufacturing (for outdoor application) and simpler installation.



DC & AC COUPLING

PV*Grid*Backup*Genset*DC EVC



SEAMLESS SWITCHING

Up to 0 ms Load-side Disruption



EXPANDABLE BATTERY CAPACITY

241 – 723 kWh
Battery Duration: 2 H / 4 H / 6 H



SMARTER ENERGY MANAGEMENT

All Devices. One App.
Real-Time Monitoring · AI Forecasts ·
Remote O&M



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DATASHEET

TECHNICAL SPECIFICATIONS

MODEL			TM241kWh- 50kW-H	TM241kWh- 60kW-H	TM241kWh- 80kW-H	TM241kWh- 100kW-H	TM241kWh- 125kW-H
BATTERY SPECIFICATION							
Battery Type [V / Ah]			LFP 3.2 / 314				
Battery Pack Energy [kWh]			60.29				
Battery System Energy [kWh]			241				
Operating Voltage Range [V]			672 ~ 876				
Number of Temperature Sensors			128				
Max. Charging / Discharging Current [A]			190 / 190				
Battery Pack Protection Level			IP67				
PV SPECIFICATION							
Max. PV Array Power [kW]			100	120	160	200	250
Max. PV Input Power [kW]			100	120	160	200	250
Withstand Voltage [V]			1000				
PV DC Input Voltage Range [V]			180 ~ 950				
Start-up Voltage [V]			180				
Nominal DC Operating Voltage [V]			750				
MPPT Voltage Range [V]			180 ~ 850				
Max. Current per MPPT [A]			40				
Max. Short Circuit Current per MPPT [A]			50				
No. of MPPTs / Strings per MPPT			4 / 2	4 / 2	8 / 2	8 / 2	8 / 2
AC OUTPUT (GRID)							
Nominal AC Output Power [kW]			50	60	80	100	125
Max. AC Output Power [kVA]			55	66	88	110	137.5
Nominal AC Output Current [A]	380V		76.0	91.2	121.6	152.0	190.0
	400V		72.2	86.6	115.5	144.4	180.4
Max. AC Output Current [A]	380V		83.6	100.3	133.7	167.2	198.5
	400V		79.4	95.3	127.0	158.8	198.5
Nominal AC Voltage [V]			220 / 380, 230 / 400, 3W+N+PE				
AC Voltage Range			0.8*Un ~ 1.2*Un				
Nominal AC Frequency [Hz]			50 / 60				
Frequency Range [Hz]			50 / 60, ±5				
Power Factor			0.8 Leading ~ 0.8 Lagging				
Max. THDi [%]			< 3				
AC INPUT (GRID / GENERATOR)							
Max. AC Input Power [kVA]			207				
Max. Bypass Current [A]			300				
Nominal AC Voltage [V]			220 / 380, 230 / 400, 3W+N+PE				
Frequency Range [Hz]			50 / 60, ±5				
EPS OUTPUT (LOAD)							
Max. AC Output Power [kVA]			55	66	88	110	137.5
Peak AC Output Power (10s) [kVA]			155				
LRA Current [A]			300				
Nominal AC Voltage [V]			220 / 380, 230 / 400, 3W+N+PE				
Nominal AC Frequency [Hz]			50 / 60				
Switching Time [ms] ^[1]			Up To 0				
Max. THDv [%]			< 3 @ Rated Power				
EFFICIENCY							
Max. Round Trip Efficiency [%]			89.5				
Max. Efficiency [%]			98.0				
PROTECTION							
DC Input Switch			YES				
PV Reverse Polarity			YES				
AC Overcurrent Protection			YES				
AC Output Short Circuit Protection			YES				
AC / DC Surge Protection			Class II				
ISO Detection			YES				
Residual Current Detection			YES				
Ground Fault Detection			YES				
AFCI			YES				
String Current Detection			YES				
GENERAL SPECIFICATION							
Dimensions (W * H * D) [mm]			1040 * 2230 * 1500				
Weight [kg]			< 2400				
Operating Temperature [°C]			-25 ~ 55				
Type of Cooling			Liquid Cooling				
Operating Altitude [m]			≤ 3000				
Humidity [%]			0 ~ 100				
Noise [dB]			<75 @ 1 m				
DOD [%]			0 ~ 100				
Cycle Life			≥ 8000				
Communication Interfaces			Ethernet / 4G				
Ingress Protection			IP55				
Corrosion Protection			C5				
Fire Protection			Smoke Detector, Heat Detector, Alarm Sounder, Cabinet-Level / PACK-Level Aerosol, Explosion Vent				
Diesel Generator Compatibility			YES				
PARALLEL UNITS							
Max. number of parallel units (On-grid) [pcs]			25				
Max. number of parallel units (Off-grid) [pcs] ^[2]			15				

[1] Test condition: With the grid disconnected, both the rated power of the T-MAX Plus and the battery's output power capability shall exceed the total power demand of the backup loads.

[2] Parallel switching cabinets are required for 6 to 15 pcs in parallel.

TECHNICAL SPECIFICATIONS

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BATTERY SPECIFICATION		
Battery Type [V / Ah]	LFP 3.2 / 314	
Battery Pack Energy [kWh]	60.29	
Battery System Energy [kWh]	241	
Operating Voltage Range [V]	672 ~ 876	
Number of Temperature Sensors	128	
Max. Charging / Discharging Current [A]	190 / 190	
Battery Pack Protection Level	IP67	
PROTECTION		
BAT Output Switch	YES	
BAT Over Current Protection	YES	
BAT Short Circuit Current Protection	YES	
ISO Detection	YES	
GENERAL SEPECIFICATION		
Dimensions (W * H * D) [mm]	1040 * 2230 * 1500	
Weight [kg]	< 2200	
Operating Temperature [°C]	-25 ~ 55	
Type of Cooling	Liquid Cooling	
Operating Altitude [m]	≤ 3000	
Humidity [%]	0 ~ 100	
Noise [dB]	<68 @ 1 m	
DOD [%]	0 ~ 100	
Cycle Life	≥ 8000	
Communication	CAN & RS485	
Ingress Protection	IP55	
Corrosion Protection	C5	
Fire Protection	Smoke Detector, Heat Detector, Alarm Sounder, Cabinet-Level / PACK-Level Aerosol, Explosion Vent	

* Maximum Expansion Battery Cabinets: 2 TM241 units per T-MAX Plus system.