The Champion's Choice

Higher · Faster · Smarter

FOX ESS

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

www.fox-ess.com

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]				100		
Max. number of parallel units (Off-grid) [pcs][2]				30		

[1] Test condition: With the grid disconnected, both the rated power of the inverter 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. 2 Mega links are required for 16-30pcs in parallel.

TECHNICAL SPECIFICATIONS

MODEL	TM241
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 SPECIFICATION	
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.