



ALL-IN-ONE

T-MAX PLUS

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



APPLICATION

Supports direct connection to PV, grid, backup load, and generator, supplying stable power in both on-grid and off-grid modes with a seamless switching time of just 10 ms.



SAFETY

Compartmentalized design with a preventive alarm system.



ECONOMIC

Zero power loss through efficient temperature control and frequency variation.



INTELLIGENT

Offers multiple operation modes, including Peak Shaving, Load Shedding, PV-Storage Energy Control, and Frequency Regulation. Operating data can be transmitted to Fox ESS Cloud via Wi-Fi, 4G or 5G.



AUGMENTABLE

Preconfigured during manufacturing, plug and play onsite. Capable of parallel connection upgrades for flexible system size application.

The T-MAX Plus Series 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.

50kW ...>>> 125kW



For more about the Fox ESS range of inverters, visit:

www.fox-ess.com



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 Capacity [kWh]			60.29		
Battery System Capacity [kWh]			241		
Operating Voltage Range [V]			672 - 876		
Number of Temperature Sensors			128		
Max. Charging Current [A]			190		
Max. Discharging Current [A]			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		
MPPT Voltage Range [V] (full load)	370 - 850	440 - 850	300 - 850	370 - 850	460 - 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
	400V	72.2	86.6	115.5	144.4
Max. AC Output Current [A]	380V	83.6	100.3	133.7	167.2
	400V	79.4	95.3	127.0	158.8
Nominal AC Voltage [V]	220 / 380, 230 / 400, 3W+N+PE or 3W+PE				
AC Voltage Range [Un]	0.8 - 1.2				
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		
Max. Power for Battery Charged [kW]	55	66	88	100	100
Nominal AC Voltage [V]	220 / 380, 230 / 400, 3W+N+PE or 3W+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 or 3W+PE				
Nominal AC Frequency [Hz]	50 / 60				
Switching Time [ms]	< 10				
Max. THDv [%]	< 3 @ Rated Power				
EFFICIENCY					
Round Trip Efficiency [%]			88.0		
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 SEPECIFICATION					
Dimensions (W * H * D) [mm]			1040 * 2230 * 1500		
Weight [kg]			< 2600		
Operating Temperature [°C]			-25 - 55		
Type of Cooling			Liquid Cooling		
Operating Altitude [m]			≤ 3000		
Humidity [%]			0 - 100		
Noise [dB]			<75 @ 1m		
DOD [%]			0 - 100		
Cycle Life			≥ 8000 @ 70% EOL		
Communication Interfaces			Ethernet		
Ingress Protection			IP55		
Corrosion Protection			Standard C4, Optional C5		
Fire Protection			Smoke Detector, Heat Detector, Alarm Sounder, Cabinet-Level / PACK-Level Aerosol, Explosion Vent		
Diesel Generator Compatibility			YES		