



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 less than 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 Ethernet or 4G.



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 / 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
	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				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 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					
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 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 @ 1 m	
DOD [%]				0 - 100	
Cycle Life				≥ 8000 @ 70% EOL	
Communication Interfaces				Ethernet / 4G	
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	
PARALLEL UNITS					
Max. number of parallel units (On-grid) [pcs]				25	
Max. number of parallel units (Off-grid) [pcs]*1				10	

*1 Parallel switching cabinets are required for 6 to 10 pcs in parallel.