



**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](http://www.fox-ess.com)



# TECHNICAL SPECIFICATIONS

MODEL	TM241kWh-50kW-HYB	TM241kWh-75kW-HYB	TM241kWh-100kW-HYB	TM241kWh-125kW-HYB
<b>BATTERY SPECIFICATION</b>				
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]	176			
Max. Discharging Current [A]	176			
Battery Pack Protection Level	IP67			
<b>PV SPECIFICATION</b>				
Max. PV Array Power [kW]	100	150	200	250
Max. PV Input Power [kW]	100	150	200	250
Withstand Voltage [V]	1000			
PV DC Input Voltage Range [V]	180 ~ 950			
Start-up Voltage [V]	180			
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	8/2	8/2	8/2
<b>AC SPECIFICATION</b>				
Nominal AC Input/Output Power [kW]	50	75	100	125
Max. AC Input/Output Power [kVA]	55	82.5	110	137.5
Nominal AC Input/Output Current [A]	380V	76.0	113.9	152.0
	400V	72.2	108.3	144.4
Max. AC Input/Output Current [A]	380V	83.6	125.4	167.2
	400V	79.4	119.1	158.8
Max. Bypass Current [A]	300			
Nominal AC Voltage [V]	380/400, 3W+N+PE or 3W+PE			
Nominal AC Frequency [Hz]	50/60			
Frequency Range [Hz]	45 ~ 55 / 55 ~ 65			
Power Factor	0.8 Leading ~ 0.8 Lagging			
Max. THDi [%]	<3			
DC Injection Current [%]	0.50			
On/Off-Grid Switch Time [ms]	<10			
Peak Current (off-grid) [A] (10s)	225			
LRA Current [A]	300			
Max. THDu (Off-grid) [%]	<3 (Linear Load)			
<b>EFFICIENCY</b>				
Round Trip Efficiency [%]	90.0			
Max. Efficiency [%]	98.0			
<b>GENERAL SEPECIFICATION</b>				
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	Flammable gas detector, Smoke detector, Heat detector, Alarm sounder, Aerosol			