FOX ESS

DATASHEET

T SERIES

THREE-PHASE INVERTER

The T Series inverter range is designed for three-phase residential and small-scale commercial installations, delivering unrivalled performance and versatility for increased yield potential and extended generation windows.



HIGH PERFORMANCE

Low start-up voltage, wide voltage range, 98.6% maximum efficiency.

EASY INSTALLATION

Flexible configuration, plug and play set-up.

IP65 RATED

Engineered to last with maximum flexibility. Suitable for outdoor installation.

3kW ••• 30kW



Advanced System Monitoring
with **FoxCloud 2.0**

REMOTE MONITORING

- Monitor your system remotely via smartphone App or Web portal.
- AI assistant helps better understand and manage your system.

www.fox-ess.com

TECHNICAL SPECIFICATIONS

MODEL	T3-M	T4-M	T5-M	T6-M	T8-M	T10-M	T12-M	T15-M	T17-M	T20-M	T23-M	T25-M	T30-M
PV INPUT													
Max. Array Power [W]	6000	8000	10000	12000	16000	20000	24000	30000	34000	40000	46000	50000	60000
Max. Input Voltage [V]	1100 [1]												
Min. Input Voltage [V]	140 [2]												
Start-up Input Voltage [V]	160												
Nominal Voltage [V]	600												
MPPT Voltage Range [V]	140 ~ 1000												
MPPT Voltage Range (full load) [V]	140 ~ 850	140 ~ 850	140 ~ 850	160 ~ 850	210 ~ 850	260 ~ 850	310 ~ 850	250 ~ 850	220 ~ 850	260 ~ 850	295 ~ 850	320 ~ 850	385 ~ 850
Max. Input Current [A]	20/20	20/20	20/20	20/20	20/20	20/20	20/20	32/32	40/40	40/40	40/40	40/40	40/40
Max. Isc Current [A]	25/25	25/25	25/25	25/25	25/25	25/25	25/25	40/40	50/50	50/50	50/50	50/50	50/50
Strings per MPP Tracker	1+1	1+1	1+1	1+1	1+1	1+1	1+1	2+2	2+2	2+2	2+2	2+2	2+2
No. of MPP Trackers	2												
AC OUTPUT													
Rated Output Power [W]	3000	4000	5000	6000	8000	10000	12000	15000	17000	20000	23000	25000	30000
Rated Apparent Power [VA]	3000	4000	5000	6000	8000	10000	12000	15000	17000	20000	23000	25000	30000
Max. Apparent Power [VA]	3300	4400	5500	6600	8800	11000	13200	16500	22000	22000	25300	27500	33000
Nominal Voltage [V]	415/240; 400/230; 380/220, 3L/N/PE												
Nominal Frequency [Hz]	50/60, ±5												
Rated Output Current (Per Phase) [A]	4.5	6.1	7.6	9.1	12.1	15.2	18.2	22.7	25.8	30.3	34.8	37.9	45.5
Max. Output Current (Per Phase) [A]	4.8	6.4	8.0	9.6	12.8	15.9	19.1	23.9	27.1	31.9	36.7	39.9	47.8
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)												
THDi [%]	<3 @rated power												
EFFICIENCY													
MPPT Efficiency [%]	99.8												
Max. Efficiency [%]	98.6												
European Efficiency [%]	97.8												
PROTECTION													
String Current Monitoring	YES												
DC Reverse Polarity Protection	YES												
Anti-islanding Protection	YES												
Output Short Protection	YES												
Leakage Current Protection	YES												
Insulation Resistance Detection	YES												
Grid Reverse Connect Protection	YES												
Overcurrent Protection	YES												
Overtemperature Protection	YES												
DC/AC Surge Protection	Type II (DC) / Type II (AC)												
DC Switch	YES												
AFCI Protection	Optional												
GENERAL DATA													
Dimension (W*H*D) [mm]	370*450*183.5												
Dimension of Packing (W*H*D) [mm]	454*592*312												
Net Weight [kg]	16.5	16.5	16.5	16.5	17.5	17.5	17.5	19.5	20.5	20.5	20.5	20.5	22.5
Installation	Wall-mounted												
Operating Temperature Range [°C]	-25 ~ 60 (Derating at 45)												
Storage Temperature [°C]	-40 ~ 70												
Storage/Operation Relative Humidity [%]	0 ~ 100 (No Condensation)												
Altitude [m]	3000												
Protective Class	I												
Overvoltage Category	III (AC), II (DC)												
Pollution Degree	PD3 (PD2 inside)												
Ingress Protection	IP65 (For Outdoor Use)												
Standby consumption [W]	<3												
Cooling Method	Natural	Natural	Natural	Natural	Natural	Natural	Natural	FAN	FAN	FAN	FAN	FAN	FAN
Noise Emission [dB]	<30	<30	<30	<30	<30	<30	<30	<55	<55	<55	<55	<55	<55
Inverter Topology	Non-Isolated												
Communication Interface	WIFI/4G (Optional), RS485												
Display	LCD, App, Website												

[1] For 1100V system, PV maximum operating voltage is 1020V.
[2] The starting working voltage of the power supply is 140V.