FOX ESS

DATASHEET

Three-Phase T Series(G3)

T3-G3/T4-G3/T5-G3/T6-G3/T8-G3/T10-G3

T12-G3/T15-G3/T17-G3/T20-G3/T23-G3/T25-G3



T SERIES (G3)

3-PHASE INVERTERS

The T Series inverter range is aimed at 3-phase domestic and small-scale commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The 3-phase T Series inverter options range from 3kW to 25kW.

REFINED - POWERFUL - FLEXIBLE

High Performance

Low start-up voltage, wide voltage range, 98.6% maxium effiency

Upgradeable*

Fully optimised for upgrade to the FOX range of battery storage system

*Requires additional FOX equipment

IP65 Rated

Engineered to tast with maximum suitable for outdoor installation

Remote Monitoring

Monitor your system remotely via smartphone app or web portal

ANYTIME, ANYWHERE

REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform.



THE T SERIES (G3)



For more about the FoxESS range of three-phase inverters, visit:

WWW.FOX-ESS.COM

TECHNICAL SPECIFICATIONS

MODEL	T3-G3	T4-G3	T5-G3	T6-G3	T8-G3	T10-G3	T12-G3	T15-G3	T17-G3	T20-G3	T23-G3	T25-G3
INPUT												
Max. Recommended DC power [W]	4500	6000	7500	9000	12000	15000	18000	22500	25500	30000	34500	37500
Max. DC Voltage [V]	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Nominal DC Operating Voltage [V]	600	600	600	600	600	600	600	600	600	600	600	600
Max. Input Current (input A/input B) [A]	14/14	14/14	14/14	14/14	14/14	14/14	14/14	28/28	28/28	28/28	28/28	28/28
Max. Short Circuit Current (input A/input B) [A]	18.2/18.2	18.2/18.2	18.2/18.2	18.2/18.2	18.2/18.2	18.2/18.2	18.2/18.2	36.4/36.4	36.4/36.4	36.4/36.4	36.4/36.4	36.4/36.4
MPPT Voltage Range [Vdc]	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000	140-1000
MPPT Voltage Range (full load) [Vdc]	140-850	155-850	190-850	230-850	300-850	380-850	455-850	275-850	315-850	370-850	430-850	460-850
Start-up voltage [V]	140	140	140	140	140	140	140	140	140	140	140	140
No. of MPP Trackers	2	2	2	2	2	2	2	2	2	2	2	2
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
OUTPUT												
Nominal AC Power [W]	3000	4000	5000	6000	8000	10000	12000	15000	17000	20000	23000	25000
Max. Apparent AC Power [VA]	3000	4000	5000	6000	8000	10000	12000	15000	17000	20000	23000	25000
Rated Grid Voltage (AC Voltage Range) [Vac]	3/N/PE, 220V/380V, 230V/400V 240V/415V											
Rated Grid Frequency [Hz]	50/60											
Nominal AC Current [A]	4.3	5.8	7.2	8.7	11.6	14.5	17.4	21.7	24.6	29.0	33.3	36.2
Max. AC Current [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
Displacement Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)											
Total Harmonic Distortion (THDi, @rated output)	<3%											
EFFICIENCY												
MPPT Efficiency [%]	99.8											
Euro Efficiency [%]	97.8											
Max. Efficiency (@rated voltage) [%]	98.6											
PROTECTION												
DC Reverse-polarity Protection:	YES											
Anti-islanding Protection:	YES											
Insulation Monitoring:	YES											
Residual Current Monitoring:	YES											
AC Short Circuit Protection:	YES											
AC Output Over Current Protection:	YES											
AC Output Over Voltage Protection:	YES											
Surge Protection:	Type II(DC) / Type II(AC)											
Temperature Protection:	YES											
Integrated DC Switch:	YES											
AFCI Protection	Optional											
String Level Monitor	YES							Optional				
STANDARD												
Safety	IEC62109-1/2											
EMC	IEC 61000-6-1/IEC 61000-6-2/IEC 61000-6-3/IEC61000-4-2/3/4/5/6/8											
Certification	AS4777.2-2020 / VDE-AR-N 4105 /VDE0126-1-1 /G98 / G99 / EN50549-1/ CEI 0-21/ NB/T32004 IEC62116 /IEC61727 /IEC61683											
GENERAL DATA												
Dimensions (WxHxD) [mm]	370*480*183.5											
NET Weight [kg]	17							21				
Cooling Concept	Natural							FAN				
Protective class	I											
Degree of Protection (according to IEC60529)	IP65											
Topology	Transformerless											
Over Voltage Category	III (AC side), II (PV side)											
Noise [dB]	<30							<55				
Operating Temperature Range [°C]	-25..... +60(derating at +45)											
Storage Temperature Range [°C]	-40..... +70											
Altitude[m]	3000											
Humidity	0-100% (no condensation)											
Self Consumption (night) [W]	<3											
Pollution Degree	II											
Monitoring Module (optional)	RS485, WIFI (optional) / GPRS (optional) / 4G(optional)											
Communication	Meter, DRM, USB update, E-stop											
Display	LCD screen, Touch Key, App, Website											