



T SERIES

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 4kW to 20kW.

REFINED – POWERFUL – FLEXIBLE



High Performance

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



Upgradeable*

Fully optimised for upgrade to the FoxESS range of battery storage systems. *Requires additional FoxESS equipment



IP65 Rated

Engineered to last with maximum flexibility. 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



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

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

MODEL	T1040	T1050	T1060	T1080	T1010	T12	T15	T17	T20
INPUT									
Max. Recommended DC power [W]	5200	6500	7800	10400	13000	15600	19500	22100	26000
Max. DC Voltage [V]					1100				
Nominal DC Operating Voltage [V]					600				
Max. Input Current (input A/input B) [A]	12.5/12.5			25/12.5			25/25		
Max. Short Circuit Current (input A/input B) [A]	16.25/16.25			32.5/16.25			32.5/32.5		
MPPT Voltage Range [Vdc]					160-850				
MPPT Voltage Range (full load) [Vdc]	210-850	210-850	250-850	330-850	410-850	330-850	410-850	350-850	410-850
Start-up Voltage [V]					180				
No. of MPP Trackers					2				
Strings per MPP Tracker	1+1			2+1			2+2		
OUTPUT									
Nominal AC Power [W]	4000	5000	6000	8000	10000	12000	15000	17000	20000
Max. Apparent AC Power [VA]	4400	5500	6600	8800	11000	13200	16500	18700	22000
Rated Grid Voltage (AC Voltage Range) [Vac]	3/N/PE, 230/400 (310-480)								
Rated Grid Frequency [Hz]	50/60, ±5								
Nominal AC Current [A]	5.8	7.2	8.7	11.6	14.5	17.4	21.7	24.6	29.0
Max. AC Current [A]	6.4	8	9.6	12.8	15.9	19.1	23.9	27.1	31.9
Displacement Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)								
Total Harmonic Distortion (THDi, @rated output)	<3%								
EFFICIENCY									
MPPT Efficiency [%]					99.0				
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:					YES				
Temperature Protection:					YES				
Integrated DC Switch:					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 / VDE-AR-N 4105 / VDE0126-1-1 / G98 / G99 / EN50549 / CEI 0-21 / IEC62116 / IEC61727 / IEC61683 BIS IS 16169:2014 / BIS IS16221-1:2016 / BIS IS16221-2:2016								
GENERAL DATA									
Dimensions (WxHxD) [mm]	460 x 400 x 160				460 x 400 x 200				
NET Weight [kg]	17				20				
Cooling Concept	Natural				Fan				
Degree of Protection (according to IEC60529)	IP65								
Topology	Transformerless								
Over Voltage Category	III (AC side), II (PV side)								
Noise Emission (typical) [dB] @1m	<30				<55				
Operating Temperature Range [°C]	-20..... +60°C (derating at +45°C)								
Storage Temperature Range [°C]	-40..... +70°C								
Altitude	4000m (>3000m derating)								
Humidity	0-100% (no condensation)								
Self Consumption (night) [W]	<3W								
Monitoring Module (optional)	RS485, WIFI (optional) / GPRS (optional)								
Communication	Meter, DRM, USB update, E-stop								
Display	LCD screen, Touch Key, App, Website								