



# U SERIES

THREE-PHASE **INVERTER**



## HIGH PERFORMANCE

Low start-up voltage, wide voltage range, 98.3% maximum efficiency.



## EASY INSTALLATION

Flexible configuration, plug and play set-up.



## IP66 RATED

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



## REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.



Advanced System Monitoring  
with **FoxCloud V2.0**

REFINED – POWERFUL – FLEXIBLE

The U Series inverter range is aimed at three-phase domestic commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The three-phase U Series inverter options range from 30kW to 40kW.

30kW ...>> 40kW



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

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



TECHNICAL SPECIFICATIONS

MODEL	U30	U33	U36	U40
INPUT(PV)				
Max. Input Power [W]	45000	49500	54000	60000
Max. Input Voltage [V]			1100	
Start-up Input Voltage [V]			200	
Rated Input Voltage [V]			600	
MPPT Operating Voltage Range [V]		200 ~ 1000		
Max. Input Current (per MPPT) [A]		36/40/40		
Max. Short-circuit Current (per MPPT) [A]		46.8/52/52		
No. of Independent MPP Trackers		3		
No. of Strings per MPP Tracker		2+2+2		
OUTPUT(AC)				
Rated Output Power [W]	30000	33000	36000	40000
Max. Output Apparent Power [VA]	34000	37000	40000	44000
Rated Grid Voltage [V]		3/N/PE, 220/380, 230/400		
Rated Grid Frequency [Hz]		50/60		
Rated Output Current [A]	43.5	47.8	52.2	58.0
Max. Output Current [A]	51.5	56.0	60.6	66.7
Power Factor		1 (Adjustable from 0.8 leading to 0.8 lagging)		
Total Harmonic Distortion ( THDi ) [%]		<3		
EFFICIENCY				
Max. MPPT Efficiency [%]		99.80		
European-Efficiency [%]		98.10		
Max. Efficiency [%]		98.30		
PROTECTION				
Insulation Monitoring		YES		
Residual Current Monitoring		YES		
PV String Current Monitoring		YES		
DC Reverse Polarity Protection		YES		
Anti-islanding Protection		YES		
AC Short-circuit Protection		YES		
AC Overcurrent Protection		YES		
AC Overvoltage Protection		YES		
Surge Protection		Type II (DC) and Type II (AC)		
Temperature protection		YES		
PID		Optional		
AFCI		Optional		
GENERAL DATA				
Dimensions (W*H*D) [mm]		580*430*263		
Weight [kg]		33		
Cooling Method		FAN		
Topology		Non-isolated		
Noise Emission (typical) [dB]		<55		
Operating Altitude [m]		3000		
Operating Temperature Range [°C]		-25 ~ 60 (Derating at +45)		
Humidity [%]		0 ~ 100 ( No Condensation )		
Ingress Protection		IP66		
Internal Consumption at Night [W]		<1		
Monitoring Module		WLAN / 4G (Optional)		
Communication		RS485, Meter		
Display		LCD, App, Website		