



# U SERIES

## 3-PHASE GRID-TIED INVERTERS

The U Series inverter range is aimed at 3-phase commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The 3-phase U Series inverter options range from 30kW to 40kW.



**PV STRING  
CURRENT MONITORING**



**ARC FAULT  
CIRCUIT INTERRUPTER  
FUNCTION**



**SMART  
I/V CURVE FUNCTION**



**IP66 RATED**

- Smart I/V Curve Function
- DC and AC Type II SPD
- PV String current monitoring
- AFCI Function
- Power line communication (PLC)
- PID Recovery
- LED+Bluetooth APP
- IP66 and C5 Protection
- 16A input current, Compatible with Bifacial Module



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

[WWW.FOX-ESS.COM](http://WWW.FOX-ESS.COM)



MODEL	U30	U33	U36	U40
<b>INPUT(PV)</b>				
Max. Input Power [W]	45000	49500	54000	60000
Max. Input Voltage [V]			1100	
Start-up Input Voltage [V]			180	
Rated Input Voltage [V]			600	
MPPT Operating Voltage Range [V]			160-1000	
MPPT Operating Voltage Range(Full load) [V]	330-850	370-850	300-850	350-850
Max. Input Current [A]	3*40	3*40	4*40	4*40
Max. Short-circuit Current [A]	3*52	3*52	4*52	4*52
No. of Independent MPP Trackers	3	3	4	4
No. of Strings per MPP Tracker	2	2	2	2
<b>OUTPUT(AC)</b>				
Rated Output Power [W]	30000	33000	36000	40000
Max. Output Apparent Power [VA]	33000	36300	39600	44000
Rated Grid Voltage [V]		3/N/PE, 220/380, 230/400, 240/415		
Rated Grid Frequency [Hz]		50/60		
Rated Output Current [A]	45.5	50.0	54.5	60.6
Max. Output Current [A]	50.0	55.0	60.0	66.7
Power Factor		1 (Adjustable from 0.8 leading to 0.8 lagging)		
Total Harmonic Distortion ( THDi )		<3%		
<b>EFFICIENCY</b>				
China-Efficiency		98.0%		
Euro-Efficiency		98.2%		
Max. Efficiency		98.6%		
<b>PROTECTION</b>				
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		DC/AC: Type II		
DC Switch		YES		
PID		YES		
AFCI		YES		
<b>GENERAL DATA</b>				
Dimensions (WxHxD) [mm]		580*435*230		
Weight [kg]	30	30	36	36
Cooling Method		FAN		
Topology		Transformerless		
Noise Emission (typical) [dB]		<65		
Max. Operating Altitude [m]		4000 (Derating at 3000m)		
Operating Temperature Range		-25~ 60(Derating at +45°C)		
Humidity		0 ~ 100% ( No Condensation )		
Protection Degree		IP66		
Internal Consumption at Night [W]		<3		
Monitoring Module Communication		WLAN / Ethernet (Optional) 4G (Optional)		
Display		RS485, Ripple control, E-stop, DRM0		
		LED, Bluetooth+App		
<b>STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)</b>				
Safety		EN 62109-1/2		
EMC		EN 61000-6-1/2/3/4		
Grid Regulation		NB/T 32004		