



# 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			