R SERIES

3-PHASE GRID-TIED INVERTERS

The R 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 R Series inverter options range from 75kW to 110kW.

PV STRING CURRENT MONITORING	ARC-FAULT CIRCUIT INTERRUPTER	PID RECOVERY	IP66 RATED

REFINED – POWERFUL – FLEXIBLE

- PV String Current Monitoring
- AFCI Function
- PID Recovery
- LED, Wi-Fi + APP
- IP66 and C5 Protection
- 13A / 26A Input Current, Compatible with Bifacial Module

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

WWW.FOX-ESS.COM

TECHNICAL SPECIFICATIONS

MODEL	R75	R100	R110
INPUT(DC)			
Max. Input Voltage [V]		1100	
Start-up Input Voltage [V]		250	
Rated Input Voltage [V]		600	
MPPT Operating Voltage Range [V] (Full Load)		550 ~ 850	
MPPT Operating Voltage Range [Vdc]		200 ~ 1000	
No. of Independent MPP Trackers	9/2	9/2	10/2
Max. Input Current [A]		26	
Max. Short-circuit Current [A]		40	
OUTPUT(AC)			
Rated Output Power [kW]	75	100	110
Max. Output Apparent Power [kVA]	75*/82.5	110	121
Max. Output Current [A]	113.7*/119.6	166.7	175.3
Rated Grid Voltage [Vac]		380/400, 3W+N+PE	
Grid Voltage Range [Vac]		320 ~ 460	
Grid Frequency Range [HZ]		45 ~ 55 / 55 ~ 65	
Adjustable Power Factor		0.8 Leading ~ 0.8 Lagging	
THDi [%]		<3	
EFFICIENCY			
Max. Efficiency [%]		98.6	
Euro. Efficiency [%]		98.2	
PROTECTION			
DC Switch		Yes	
DC Reverse Polarity Protection		Yes	
AC Overcurrent Protection		Yes	
AC Short-circuit Protection		Yes	
Surge Protection		DC Type II / AC Type II	
PID Recovery		Yes	
Insulation Monitoring		Yes	
Residual Current Monitoring		Yes	
AFCI		Optional	
PV String Current Monitoring		Optional	
GENERAL DATA			
Dimensions (W*H*D) [mm]		975*630*360	
Weight [kg]		90	
Operating Ambient Temperature Range [°C]		-30 ~ 60	
Cooling Method		Smart Air Cooling	
Operating Altitude [m]		4000 (>3000m Derating)	
Allowable Relative Humidity Range [%]		0 ~ 100 (Non-Condensing)	
Ingress Protection Rating		IP66	
Isolation Method		Transformerless	
Display		LED,Wi-Fi+APP	
Communication		RS485 / USB / Wi-Fi+LAN / 4G	
DC Connection Type		MC4 Similar	
AC Connection Type		OT Terminal	
STANDARD (More Available Upon Request)			
IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, EN 50549, VDE ARN 4105, VDE ARN 4110			

* Only for Brazil Market