



# R SERIES

THREE-PHASE **INVERTER**



## PV STRING MONITORING

Real time PV string current sampling and monitoring, with string performance analysis and report abnormal condition capability.



## PID RECOVERY

Improving panel efficiency over life time and prevents further degradation with auto detection and adjustment.



## AFCI FUNCTION

Providing safe and reliable protection against arc, and accurate and fast response to ensure man and device safety.



## IP66 RATED

Reliable performance under extreme environment and temperature condition, extending product life with minimum effort.



## REFINED – POWERFUL – FLEXIBLE

The R Series inverter range is aimed at three-phase commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The three-phase R Series inverter options range from 75kW to 110kW.

75kW ...>> 110kW



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

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

# TECHNICAL SPECIFICATIONS

MODEL	R75	R100	R110
<b>INPUT(DC)</b>			
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	
<b>OUTPUT(AC)</b>			
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	
<b>EFFICIENCY</b>			
Max. Efficiency [%]		98.6	
Euro. Efficiency [%]		98.2	
<b>PROTECTION</b>			
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	
<b>GENERAL DATA</b>			
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	
<b>STANDARD (More Available Upon Request)</b>			

IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, EN 50549, VDE ARN 4105, VDE ARN 4110