DATASHEET

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 detecation 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

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 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	
European 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 (No condensation)	
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