



# R SERIES(G2)

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(G2) 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(G2) inverter options range from 75kW to 136kW.

75kW ...>> 136kW



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-G2	R80-G2	R100-G2	R110-G2	R125-G2	R136-G2
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	9/2	10/2	10/2	10/2
Max. Input Current [A]			40			
Max. Short-circuit Current [A]			50			
OUTPUT(AC)						
Rated Output Power [kW]	75	80	100	110	125	136
Max. Output Apparent Power [kVA]	75*/82.5	88	110	121	137.5	138
Max. Output Current [A]	113.7*/125	133.3	166.7	183.3	199.3	200
Rated Grid Voltage [Vac]			400, 3W+N+PE			
Grid Voltage Range [Vac]			320 ~ 480			
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 Temperature [°C]			-30 ~ 60			
Cooling Method			Smart Air Cooling			
Operating Altitude [m]			4000 (>3000m Derating)			
Relative Humidity Range [%]			0 ~ 100 (No condensation)			
Night Power Consumption [W]			3.5			
Ingress Protection Rating			IP66			
Isolation Method			Non-isolated			
Display			LED,Wi-Fi+APP			
Communication			RS485 / USB / Wi-Fi+LAN / 4G (Bluetooth)			
DC Connection Type			MC4 Similar			
AC Connection Type			OT Terminal			
STANDARD						

IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, EN 50549

\* Only for Brazil Market