



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



TECHNICAL SPECIFICATIONS

MODEL	R75-G2	R80-G2	R100-G2	R110-G2	R125-G2	R136-G2
INPUT(DC)						
Max. Array Power [kWp]	150	160	200	220	250	272
Max. DC Input Power [kW]	150	160	200	220	250	272
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			
AC Voltage Range [Vac]			320 ~ 460			
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 (Derating at 50)			
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			
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