



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						