



# R SERIES

## 3-PHASE GRID-TIED INVERTERS

The R Series inverter range is aimed at 3-phase commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The 3-phase R Series inverter options range from 75kW to 136kW.



PV STRING  
CURRENT MONITORING



ARCFault  
CIRCUIT INTERRUPTER  
FUNCTION



SMART  
I/V CURVE FUNCTION



IP66 RATED

- Smart I/V Curve Function
- PV String Current Monitoring
- AFCI Function
- PID Recovery
- LED, Wi-Fi + APP
- IP66 and C5 Protection
- 13A / 16A Input Current, Compatible with Bifacial Module

REFINED – POWERFUL – FLEXIBLE



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

[WWW.FOX-ESS.COM](http://WWW.FOX-ESS.COM)



# TECHNICAL SPECIFICATIONS

www.fox-ess.com.cn

| MODEL                                        | R75                          | R100       | R110       | R120         | R136       |
|----------------------------------------------|------------------------------|------------|------------|--------------|------------|
| INPUT(DC)                                    |                              |            |            |              |            |
| Max. Input Voltage [V]                       | 1100                         | 1100       | 1100       | 1100         | 1100       |
| Start-up Input Voltage [V]                   | 250                          | 250        | 250        | 250          | 250        |
| Rated Input Voltage [V]                      | 600                          | 600        | 600        | 600          | 780        |
| MPPT Operating Voltage Range [V] (Full Load) | 550 ~ 850                    | 550 ~ 850  | 550 ~ 850  | 550 ~ 850    | 550 ~ 850  |
| MPPT Operating Voltage Range [Vdc]           | 200 ~ 1000                   | 200 ~ 1000 | 200 ~ 1000 | 200 ~ 1000   | 200 ~ 1000 |
| No. of Independent MPP Trackers              | 9/2                          | 9/2        | 10/2       | 12/2         | 12/2       |
| Max. Input Current [A]                       | 26                           | 26         | 26         | 32           | 32         |
| Max. Short-circuit Current [A]               | 40                           | 40         | 40         | 40           | 40         |
| OUTPUT(AC)                                   |                              |            |            |              |            |
| Rated Output Power [kW]                      | 75                           | 100        | 110        | 120          | 136        |
| Max. Output Apparent Power [kVA]             | 75*/82.5                     | 110        | 121        | 132          | 150        |
| Max. Output Current [A]                      | 113.7*/119.6                 | 166.7      | 175.3      | 191.3        | 173.2      |
| Rated Grid Voltage [Vac]                     | 380/400, 3W+N+PE             |            |            | 400, 3W+N+PE | 500, 3W+PE |
| Grid Voltage Range [Vac]                     | 320 ~ 460                    | 320 ~ 460  | 320 ~ 460  | 320 ~ 460    | 400 ~ 575  |
| Grid Frequency Range [HZ]                    | 45 ~ 55 / 55 ~ 65            |            |            |              |            |
| Adjustable Power Factor                      | 0.8 leading ~ 0.8 lagging    |            |            |              |            |
| THDi [%]                                     | <3                           |            |            |              |            |
| EFFICIENCY                                   |                              |            |            |              |            |
| Max. Efficiency [%]                          | 98.6                         |            |            |              |            |
| Euro. 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                                         | Yes                          |            |            |              |            |
| PV String Current Monitoring                 | Yes                          |            |            |              |            |
| 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                         |            |            |              |            |
| 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                          |            |            |              |            |
| 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

\* Only for Brazil market

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