

# FRONIUS IG PLUS ADVANCED WITH INTEGRATED AFCI



/ Arc Fault Circuit  
Interruption



/ MIX Technology



/ Smart Transformer  
Switching



/ Field Serviceable



/ Smart Card  
Ready



/ The Fronius IG Plus Advanced is the next generation of the renowned Fronius IG Plus series. One of the first CSA-certified inverter lines with integrated arc fault protection available in Canada, the Fronius IG Plus Advanced offers a safe and cost-effective one-box solution to the new Canadian Electric Code AFCI requirements. It also comes equipped with a built-in Fronius Com Card for easier and faster monitoring installations in the field.

Power classes range from 3 to 12 kW, for both single and true three phase applications. As always, these inverters feature our unique MIX Technology and accurate MPPT tracker for superior yield in all weather conditions. The Fronius IG Plus Advanced is field serviceable by certified Fronius Service Partners.

*\*In Canada, the Fronius IG Plus Advanced is available both Ontario domestic content compliant (DCC) and non-domestic content compliant.*

## TECHNICAL DATA: FRONIUS IG PLUS ADVANCED

| INPUT DATA                               | 3.0-1 <sub>phase</sub>                                                 | 3.8-1 <sub>phase</sub> | 5.0-1 <sub>phase</sub> | 6.0-1 <sub>phase</sub> | 7.5-1 <sub>phase</sub> | 10.0-1 <sub>phase</sub> | 11.4-1 <sub>phase</sub>                         | 10.0-3 <sub>phase</sub> | 11.4-3 <sub>phase</sub> | 12.0-3 <sub>phase</sub> |
|------------------------------------------|------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------------------------------|-------------------------|-------------------------|-------------------------|
| Recommended PV power (kWp)               | 2.50 - 3.45                                                            | 3.20 - 4.40            | 4.25 - 5.75            | 5.10 - 6.90            | 6.35 - 8.40            | 8.50 - 11.50            | 9.70 - 13.00                                    | 8.50 - 11.50            | 9.70 - 13.00            | 10.00 - 13.00           |
| Nominal input current                    | 6.3 A                                                                  | 10.5 A                 | 13.8 A                 | 16.5 A                 | 20.7 A                 | 27.6 A                  | 33.8 A                                          | 27.6 A                  | 33.8 A                  | 33.3 A                  |
| Max. available input current             | 14.0 A                                                                 | 17.8 A                 | 23.8 A                 | 28.3 A                 | 35.1 A                 | 46.8 A                  | 53.3 A                                          | 46.7 A                  | 53.3 A                  | 54.1 A                  |
| MPPT voltage range                       | 250 - 500 V                                                            |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| DC startup voltage                       | 240 V                                                                  |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| Max. input voltage                       | 600 V                                                                  |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| Adjustable conductor size (DC)           | No. 14 to 6 AWG. For larger wire, see Fronius connecting distributor.  |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| Max. connected per DC input terminal     | 20 A/m². For higher input current, see Fronius connecting distributor. |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
|                                          |                                                                        |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| OUTPUT DATA                              | 3.0-1 <sub>phase</sub>                                                 | 3.8-1 <sub>phase</sub> | 5.0-1 <sub>phase</sub> | 6.0-1 <sub>phase</sub> | 7.5-1 <sub>phase</sub> | 10.0-1 <sub>phase</sub> | 11.4-1 <sub>phase</sub>                         | 10.0-3 <sub>phase</sub> | 11.4-3 <sub>phase</sub> | 12.0-3 <sub>phase</sub> |
| Nominal output power                     | 3,000 W                                                                | 3,800 W                | 5,000 W                | 6,000 W                | 7,500 W                | 10,000 W                | 11,400 W                                        | 10,000 W                | 11,400 W                | 12,000 W                |
| Max. continuous output power             | 3,000 W                                                                | 3,800 W                | 5,000 W                | 6,000 W                | 7,500 W                | 10,000 W                | 11,400 W                                        | 10,000 W                | 11,400 W                | 12,000 W                |
| Nominal AC output voltage (V)            | 120/208/240/277                                                        |                        |                        |                        |                        |                         | 240/208                                         | 208/240                 | 208/240                 | 277                     |
| Number of phases                         | 1                                                                      |                        |                        |                        |                        |                         | 3                                               |                         | 3                       |                         |
| Grid connection type                     | 2 wire or 3 wire + grounded                                            |                        |                        |                        |                        |                         | 3 wire or 4 wire + grounded / 4 wire + grounded |                         |                         |                         |
| Adjustable conductor size (AC)           | No. 10 - 6 AWG                                                         |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| Max. continuous utility backfeed current | 0 A                                                                    |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| Nominal output frequency                 | 60 Hz                                                                  |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| Operating frequency range                | 59.5 - 60.5 Hz                                                         |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| Total harmonic distortion                | < 3 %                                                                  |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| Power factor                             | 0.95 - 0 lead / lag                                                    |                        |                        |                        |                        |                         |                                                 |                         |                         |                         |
| Operating AC voltage range               | 208 V                                                                  | 193 - 228 V (±2.2 %)   |                        |                        |                        |                         | 210 - 244 V (±2.2 %)                            | 210 - 244 V (±2.2 %)    |                         |                         |
|                                          | 240 V                                                                  | 234 - 264 V (±2.2 %)   |                        |                        |                        |                         | 234 - 264 V (±2.2 %)                            | 234 - 264 V (±2.2 %)    |                         |                         |
|                                          | 277 V                                                                  | 264 - 305 V (±2.2 %)   |                        |                        |                        |                         | 264 - 305 V (±2.2 %)                            | 264 - 305 V (±2.2 %)    |                         |                         |
| Nominal AC output current                | 208 V                                                                  | 14.4 A                 | 18.3 A                 | 24.0 A                 | 28.8 A                 | 36.1 A                  | 48.3 A                                          | 34.8 A                  | 47.7 A*                 | N/A                     |
|                                          | 240 V                                                                  | 12.5 A                 | 15.8 A                 | 20.8 A                 | 24.9 A                 | 31.2 A                  | 41.5 A                                          | 29.8 A*                 | 39.8 A*                 | N/A                     |
|                                          | 277 V                                                                  | 10.8 A                 | 13.7 A                 | 18.1 A                 | 21.7 A                 | 27.1 A                  | 36.1 A                                          | 26.2 A                  | N/A                     | 14.4 A*                 |

# Fronius Ig Plus Manual

**SA Adler**



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