

Fronius IG Plus Technical Data



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|--------------|-----------------------------|-----------------------------|-----------------------------|
| Manufacturer | Fronius International GmbH. | Fronius International GmbH. | Fronius International GmbH. |
| Sales | Fronius International GmbH. | Fronius International GmbH. | Fronius International GmbH. |

| | | | |
|-------------|---------------------------|----------------------------|----------------------------|
| Device type | Fronius IG 50 Plus | Fronius IG 100 Plus | Fronius IG 150 Plus |
|-------------|---------------------------|----------------------------|----------------------------|

DC

| | | | |
|--------------------------|------|-------|-------|
| Nominal capacity DC (kW) | 4.21 | 8.42 | 12.63 |
| Max. PV power (kWp) | 5.05 | 10.11 | 15.16 |
| Nominal voltage DC (V) | 390 | 390 | 390 |
| MPP range DC from (V) | 230 | 230 | 230 |
| MPP range DC to (V) | 500 | 500 | 500 |
| Max. voltage DC (V) | 600 | 600 | 600 |

AC

| | | | |
|--------------------------|-------|-------|-------|
| Nominal capacity AC (kW) | 4 | 8 | 12 |
| Max. power AC (kW) | 4 | 8 | 12 |
| Number of feed-in phases | 1 | 1/2 | 3 |
| Frequency AC (50Hz) | yes | yes | yes |
| Frequency AC (60Hz) | yes | yes | yes |
| Cos phi | 1 | 1 | 1 |
| Current shape | sine | sine | sine |
| Harmonic distortion | <3.5% | <3.5% | <3.5% |

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Efficiency

| | | | |
|-------------------|-------|-------|-------|
| Night consumption | 0 W | 0 W | 0 W |
| Max. efficiency | 96.1% | 96.1% | 96.1% |
| Euro. efficiency | 95.1 | 95.5 | 95.5 |

Concept

| | | | |
|---------|--------------|--------------|--------------|
| Concept | HF, FET/IGBT | HF, FET/IGBT | HF, FET/IGBT |
|---------|--------------|--------------|--------------|

Safety

| | | | |
|-----------------------|---------------------|---------------------|---------------------|
| Protection class | IP45 | IP45 | IP45 |
| ENS | as per VDE 0126-1-1 | as per VDE 0126-1-1 | as per VDE 0126-1-1 |
| Insulation monitoring | yes | yes | yes |
| Overload behavior | APV, LB | APV, LB | APV, LB |

Mechanical Data

| | | | |
|-------------|-------|-------|--------|
| Height (mm) | 628.5 | 923.5 | 1218.5 |
| Width (mm) | 433.2 | 433.2 | 433.2 |
| Depth (mm) | 242.9 | 242.9 | 242.9 |
| Weight (kg) | 25 | 38 | 49 |
| Fan | yes | yes | yes |

Ambient conditions

| | | | |
|---------------------|---------------------|---------------------|---------------------|
| Ambient temperature | from -20°C to +50°C | from -20°C to +50°C | from -20°C to +50°C |
| Relative humidity | 0% to 95% | 0% to 95% | 0% to 95% |

Other:

| | | | |
|-----------------|------------------|------------------|------------------|
| Warranty period | 5, opt. 10 years | 5, opt. 10 years | 5, opt. 10 years |
|-----------------|------------------|------------------|------------------|