

PROTECT 8 INV

Industrial inverters 10 – 120 kVA

Protect 8 INV1 – INV3

Single phase output 230 V

Three phase output 400 V



Other voltages available upon request

Designed for all industrial applications

Protect 8 INV is the latest generation of our Protect inverter product range. Extremely robust, both electrically and mechanically, it is custom-designed for use in harsh industrial environments to meet the most stringent requirements:

- Specific mechanical protection degree
- Specific input and output voltage
- Customized documentation

Typical applications

- Oil and gas (petrochemicals, offshore, onshore, pipelines)
- Energy and electricity generation (power generation, transmission, distribution)
- Water (desalination treatment)
- Instrumentation and process control (chemical, mining, steel, paper)
- Emergency lighting
- All types of demanding industrial applications

FEATURES

- Online technology
- Microprocessor-driven control and command system
- Customized input/output voltages
- Excellent dynamic response
- Parallel mode (up to 8 units)
- High efficiency even at low output power
- Full digital control

BENEFITS

- More than 60 years of experience in the UPS business incorporated into the Protect 8 INV
- Modern modular “building block” to meet all customization requirements
- Inverters designed for industrial applications
- Short lead times
- High level of robustness for harsh working environments
- Redundant controls for high reliability
- Small footprint
- Compatible with every type of battery
- Premium communication platform

Specifications

| | | |
|--|--|------------------|
| DC Input | 108 V $\pm 20\%$ | 236 V $\pm 20\%$ |
| @ 3 phase output voltage configuration | | |
| - Nominal AC voltage in V | 3 x 400 V (3 x 380 V, 3 x 415 V)* | |
| - Nominal output current in A | 14 – 87 A | 14 – 173 A |
| - Nominal power in kVA | 10 – 60 kVA | 10 – 120 kVA |
| @ 1 phase output voltage configuration | | |
| - Nominal AC voltage in V | 230 V (220 V, 240 V)* | |
| - Nominal output current in A | 22 – 261 A | 43 – 522 A |
| - Nominal power in kVA | 5 – 60 kVA | 10 – 120 kVA |
| Output voltage static response | < $\pm 1\%$ | |
| Output voltage dynamic response | < $\pm 2\%$ | |
| Recovery time | 2ms | |
| Frequency | 50/60Hz | |
| Frequency static tolerance | $\pm 0.1\%$ | |
| Frequency synchronization range | $\pm 1\%$ ($\pm 2\%$, $\pm 3\%$) | |
| Power factor at nominal load | $\cos \varphi \geq 0.8$ | |
| Voltage wave form | Sinusoidal | |
| Crest factor | ≤ 3 | |
| Overload response 1 min. | 150 % | |
| Overload response 10 min. | 125 % | |
| Short circuit response | $\leq 3 I_{\text{nom}}$ | |
| STATIC BYPASS SWITCH | | |
| Nominal AC voltage (@ 3 phase output) | 3 x 400 V (3 x 380 V, 3 x 415 V)* | |
| Nominal AC voltage (@ 1 phase output) | 230 V (220 V, 240 V)* | |
| Nominal Frequency | 50/60Hz | |
| GENERAL DATA | | |
| Efficiency depending on rating | Up to 90 % / $\geq 95\%$ with ECO Mode | |
| Degree of protection | IP20 (option up to IP43)* | |
| Noise level depending on rating | $\leq 62 - 70$ dB (A) | |
| Color | RAL 7035 | |
| Operation temperature | -10°C to 40°C (without derating) | |
| Storage temperature | -30°C to 75°C | |
| Maximum altitude without derating | 1000 m | |
| STANDARDS | | |
| Safety | IEC 62040 - 1 | |
| EMC immunity and emission | IEC 62040 - 2 | |
| Performance | IEC 62040 - 3 | |
| CE marking | Yes | |
| *Others upon request | | |

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Authorized distributor in Slovakia:

Rhea elektro s.r.o.
 Elektrárenská 1/ 12440, 831 04 Bratislava
 Tel.: +421 2 49101914, -18
 E-mail: info@rhea-elektro.sk
 www.rhea-elektro.sk

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