

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 %	216 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	2 ms	
Frequency	50/60 Hz	
Frequency static tolerance	\pm 0.1 %	
Frequency synchronization range	\pm 1 % (\pm 2 %, \pm 3 %)	
Power factor at nominal load	Cos φ 0.8	
Voltage wave form	Sinusoidal	
Crest factor	\leq 3	
Overload response 1 min.	150 %	
Overload response 10 min.	125 %	
Short circuit response	\leq 3 I _{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	50/60 Hz	
GENERAL DATA		
Efficiency depending on rating	Up to 90 % / >95 % with ECO Mode	
Degree of protection	IP20 (option up to IP43)*	
Noise level depending on rating	<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

AEG Power Solutions

Approach your local AEG Power Solutions representative for further support. Contact details can be found on: www.aegps.com