

PROTECT PV

STRING SOLAR INVERTERS

Complete Portfolio
State of the art products
2.0 kW inverter
2.8 kW inverter
4.6 kW inverter



Main features

- » Transformerless Design
- » Over 96 % conversion efficiency
- » Plug & Play
- » Over 99 % MPP Tracker efficiency
- » 1 to 3 MPP Trackers
- » Compact Design
- » Fanless
- » ENS meet VDE 0126-1-1
- » LCD Display
- » Easy operation
- » Powerful Communication Interfaces with internal GFCI
- » IP65, Outdoor

Protect Logger

- » Designed for Protect PV Family
- » Easy installation
- » Plug & Play
- » Graphic Display via LCD
- » Memory storage via USB memory stick
- » Universal AC power input
- » Remote communications via Ethernet or GPRS
- » Alarm notification by SMS or E-mail
- » 2 analog inputs for temperature and irradiance
- » Monitoring up to 20 inverters



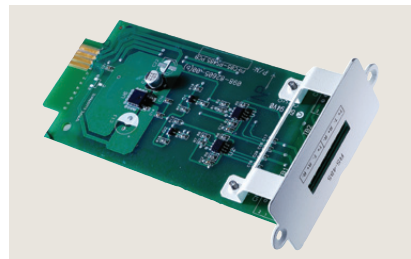
PROTECT PV

SPECIFICATION

| MODELL | Protect PV 2000 | Protect PV 2800 | Protect PV 4600 |
|-----------------------|--|--|--|
| DC INPUT | | | |
| Nominal DC voltage | 360 VDC | 360 VDC | 600 VDC |
| Max. PV open voltage | 500 VDC | 500 VDC | 750 VDC |
| MPPT range | 150–450 VDC | 150–450 VDC | 125–700 VDC |
| Working Range | 100–500 VDC | 100–500 VDC | 100–750 VDC |
| Number of MPP Tracker | 1 | 1 | 3 |
| Max. Input current | 10 ADC | 13 ADC | 8.5 ADC per Tracker |
| AC OUTPUT | | | |
| Output power | 2000 W | 2800 W | 4600 W |
| Max. power | 2200 W | 3000 W | 5000 W |
| Operational Voltage | 184–264.5 VAC | 184–264.5 VAC | 184–264.5 VAC |
| Operational Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current distortion | < 3 % | < 3 % | < 3 % |
| Power Factor (cos φ) | ~ 1 | ~ 1 | ~ 1 |
| SYSTEM | | | |
| Display | LCD Display 1 line, 16 Char. | LCD Display 1 line, 16 Char. | LCD Display 2 line, 16 Char. |
| Max. efficiency | > 96 % | > 96 % | > 96 % |
| Euro efficiency | > 95 % | > 95 % | > 94 % |
| Protection degree | IP 43 | IP 43 | IP 65 |
| Operation temp. | -20 °C ~ 55 °C | -20 °C ~ 55 °C | -20 °C ~ 55 °C |
| Humidity | 0 ~ 95 % non-condensing | 0 ~ 95 % non-condensing | 0 ~ 95 % non-condensing |
| Standby power | ~ 7 W | ~ 7 W | ~ 8 W |
| Acoustic noise level | < 35 dBA | < 35 dBA | < 35 dBA |
| Comm. Interface | Standard RS232 Optional RS485 and others | Standard RS232 Optional RS485 and others | Standard RS232 Optional RS485 and others |
| MECHANICAL | | | |
| W x D x H (mm) | 350 x 302 x 124 | 350 x 302 x 139 | 430 x 530 x 134 |
| Weight (kg) | 12.25 | 12.5 | 27 |

| Protect PV Logger | |
|-------------------|-------------------------|
| Supply AC | 90–250 VAC, 50/60 Hz |
| Operational temp. | -10 °C ~ 40 °C |
| Storage temp. | -20 °C ~ 60 °C |
| Alarm relay | 1 A/24 VDC |
| INTERFACE | |
| RS232 | 1, DB9 |
| RS485 | 1, terminal block |
| Ethernet | 1, RJ45 |
| LCD | 3.8" color |
| USB | 2 ports |
| Sensor ports | temperature, irradiance |
| GPRS modem | via RS232 or USB |
| MECHANICAL | |
| W x D x H (mm) | 155 x 95 x 35 |
| Weight (g) | 320 |

| RS485 optional card | |
|---------------------|----------------|
| Transmission mode | Full Duplex |
| Operational temp. | -20 °C ~ 55 °C |
| MECHANICAL | |
| W x D x H (mm) | 60 x 130 x 1.6 |
| Weight (g) | 60.8 |



For further information
please refer to our website:

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AEG
POWER SOLUTIONS