

Generate your Power

Protect PV String Solar Inverters

Complete Portfolio State of the art products

2.0 kW inverter
2.8 kW inverter
4.6 kW inverter
10 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



PERFECT IN FORM AND FUNCTION

AEG

Protect PV: Specification

MODELL	Protect PV 2000	Protect PV 2800	Protect PV 4600	Protect PV 10
DC INPUT				
Nominal DC voltage	360 VDC	360 VDC	600 VDC	640 VDC
Max. PV open voltage	500 VDC	500 VDC	750 VDC	800 VDC
MPPT range	150–450 VDC	150–450 VDC	125–700 VDC	320–720 VDC
Working Range	100–500 VDC	100–500 VDC	100–750 VDC	200–800 VDC
Number of MPP Tracker	1	1	3	3
Max. Input current	10 ADC	13 ADC	8,5 ADC per Tracker	13 ADC per Tracker
AC OUTPUT				
Output power	2000 W	2800 W	4600 W	10000 W
Max. power	2200 W	3000 W	5000 W	11000 W
Operational Voltage	184–264.5 VAC	184–264.5 VAC	184–264.5 VAC	400 Vx3, -20 % +15 %
Operational Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Current distortion	< 3 %	< 3 %	< 3 %	< 3 %
Power Factor (cos φ)	~ 1	~ 1	~ 1	~ 1
SYSTEM				
Display	LCD Display 1 line, 16 Char.	LCD Display 1 line, 16 Char.	LCD Display 2 lines, 16 Char.	LCD Display 128 x 64 Graphic Display
Max. efficiency	> 96 %	> 96 %	> 96 %	> 96,5 %
Euro efficiency	> 95 %	> 95 %	> 94 %	> 95 %
Protection degree	IP 43	IP 43	IP 65	Chassis: IP 65, Fan: IP 44
Operation temp.	-20° C ~ 55° C	-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	0 ~ 95 %, Force air cooling, variable fan speed
Standby power	~ 7 W	~ 7 W	~ 8 W	~ 30 W
Acoustic noise level	< 35 dBA	< 35 dBA	< 35 dBA	< 45 dBA
Comm. Interface	Standard RS232 Optional RS485 and others	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	583 x 452 x 156
Weight (kg)	12,25	12,5	27	35,9

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 RS 232 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



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For further information
please refer to our website:

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