

# PROTECT PV

## STRING SOLAR INVERTERS

Complete Portfolio  
State of the art products  
1.5 kW inverter  
2.8 kW inverter  
4.6 kW inverter  
10.0 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



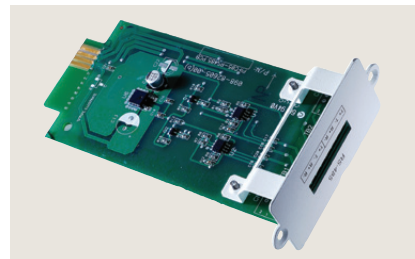
# PROTECT PV

SPECIFICATION

MODELLO	Protect PV 1500	Protect PV 2800	Protect PV 4600	Protect PV 10
<b>DC INPUT</b>				
Nominal DC voltage	360 VDC	360 VDC	600 VDC	640 VDC
Max. PV open voltage	450 VDC	500 VDC	750 VDC	800 VDC
MPPT range	150–450 VDC	150–450 VDC	125–700 VDC	300–800 VDC
Working Range	120–450 VDC	100–500 VDC	100–750 VDC	200–800 VDC
Number of MPP Tracker	1	1	3	3
Max. Input current	8.9 ADC	13 ADC	8.5 ADC per Tracker	13 ADC per Tracker
<b>AC OUTPUT</b>				
Output power	1500 W	2800 W	4600 W	10000 W
Max. power	1650 W	3000 W	5000 W	11000 W
Operational Voltage	196–253 VAC	184–264.5 VAC	184–264.5 VAC	400 VAC x3, -15 % +10%
Operational Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Current distortion	< 3 %	< 3 %	< 3 %	< 3 %
Power Factor (cos φ)	~ 1	~ 1	~ 1	~ 1
<b>SYSTEM</b>				
Display	LCD Display 1 line, 16 Char.	LCD Display 1 line, 16 Char.	LCD Display 2 line, 16 Char.	LCD Display 128 x 64 Graphic display
Max. efficiency	> 95 %	> 96 %	> 96 %	> 97 %
Euro efficiency	> 93 %	> 95 %	> 94 %	> 95 %
Protection degree	IP 43	IP 43	IP 65	IP 65
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 %, Forced air cooling variable fan speed
Standby power	~ 7 W	~ 7 W	~ 8 W	~ 30 W
Acoustic noise level	< 30 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
<b>MECHANICAL</b>				
W x D x H (mm)	315 x 269 x 120	350 x 302 x 139	430 x 530 x 134	585 x 455 x 155
Weight (kg)	8.5	12.5	27	35

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
<b>INTERFACE</b>	
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
<b>MECHANICAL</b>	
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
<b>MECHANICAL</b>	
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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www.aegps.com

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