

# PV.LoG PV.SerV

## CENTRAL DATA STORAGE IN PHOTOVOLTAIC POWER STATIONS



PV.LoG

PV.SerV

The data loggers in the PV product range act as a cache for medium and large-scale photovoltaic systems. They continuously collect all important data from the inverters, from the combiner boxes, from the weather sensors, and from the energy meter. They provide access to the current status of the entire system. Depending on their configuration they are equipped with an integrated DSL router and/or data server as a mirror.

An Ethernet switch with fiber optic connections is included in all data loggers. These connections enable a redundant and potential-free ring network structure between the containers in PV power stations.

All in-house photovoltaic products from AEG Power Solutions are part of the monitoring network, including the:

- » Protect PV Central Inverters
- » Protect PV String Inverters
- » PV.IcX Combiner Boxes

The data logger can also monitor the following weather sensors:

- » PV.SuN/PV.PyranO for radiation measurement
- » PV.WinD for wind measurement
- » PV.ClimatE for precipitation and wind direction measurement
- » PV.EnergY interface for energy meters

|   | PV.LoG | PV.LoG+ | PV.SerV- | PV.SerV |
|---|--------|---------|----------|---------|
| <b>KEY FEATURES</b>                             |        |         |          |         |
| DSL Router (Annex A/B)                          | -      | x       | -        | x       |
| Microspace Data Server                          | -      | -       | x        | x       |
| <b>STANDARD</b>                                 |        |         |          |         |
| Industrial PC                                   |        | x       |          |         |
| DC-UPS 24 V DC                                  |        | x       |          |         |
| CAN Bus overvoltage protection                  |        | x       |          |         |
| Ethernetswitch with FOC-connection fiber optics |        | x       |          |         |
| 24 V DC fuseblock                               |        | x       |          |         |
| Temperature sensor inside PT1000                |        | x       |          |         |
| Temperature sensor outside PT1000               |        | x       |          |         |
| <b>OPTIONS</b>                                  |        |         |          |         |
| Cabinet lighting                                |        | o       |          |         |
| Fan assembly                                    |        | o       |          |         |
| PV.Control light interface                      |        | o       |          |         |
| PV.EnergY interface                             |        | o       |          |         |
| String inverter interface                       |        | o       |          |         |
| As wall-mounted cabinet available               |        | o       |          |         |

x included, - not included, o optional

PV.LoG  
 PV.LoG+  
 PV.SerV-  
 PV.SerV  
 TECHNICAL DATA

| COMPONENTS                          |  |
|-------------------------------------|--|
| <b>HARDWARE</b>                     |  |
| 1x DC UPS                           | 24 V DC  |
| 2x Batteries                        | Panasonic 12 V/42 Ah                                   |
| 1x IPC data logger                  | Compact Flash up to 1GB, battery-backed clock          |
| 1x Ethernet switch                  | fiber-optic network                                    |
| 1x DSL-Router                       | Type DR-250 (only PV.LoG+ & PV.SerV)                   |
| 2x Temperature sensors              | Inverter station                                       |
| 1x Service socket                   | With ground-fault protector (option)                   |
| <b>SOFTWARE</b>                     |  |
| System software                     | Linux  |
| Access                              | Internet Browser, Java V1.6                            |
| <b>DATA TRANSMISSION</b>            |  |
| <b>INTERFACES</b>                   |  |
| CAN                                 | 2x 2.0 B   |
| FOC                                 | 2x 100 BaseFX  |
| Ethernet                            | 6x 10/100 BaseT  |
| DSL                                 | 1x RJ45 socket   |
| <b>DATA LOGGER</b>                  |  |
| Protocol                            | IP Ethernet, skytron®-specific communication           |
| Data rate                           | 10/100 MBit/s  |
| Cable recommended                   | HITRONIC® HQN outdoor cable 4G50/125 with SC connector |
| <b>SENSOR SYSTEMS (2 X CAN BUS)</b> |  |
| Protocol                            | CAN open as to CiA standard DS-301                     |
| Data rate                           | 20 Kbit/s  |
| Cable recommended                   | Li2YCYv 8x2x0.5 (TP)                                   |
| Number of users per CAN Bus         | Max. 27  |
| <b>ELECTRICAL DATA</b>              |  |
| Power supply                        | 110 V to 230 VAC/47 Hz to 63 Hz mains                  |
| Power consumption                   | Max. 150 W   |
| CAN Bus supply                      | 24 V DC through DC-UPS                                 |
| Backup system                       | 24 V DC, 2 batteries Panasonic 12 V/42 Ah              |
| Over voltage protection             | 24 V DC and CAN Bus                                    |
| <b>MECHANICAL DATA</b>              |  |
| Protection Class                    | IP 20  |
| Standards                           | EN IEC 60269-4/VDE 0636-4                              |
| Dimensions H x W x D                | 2000 x 600 x 600 mm                                    |
| Weight                              | 200 kg   |
| <b>AMBIENT CONDITIONS</b>           |  |
| Operating temperature               | -20 °C to +50 °C                                       |
| Storage temperature                 | -20 °C to +70 °C                                       |
| Relative air humidity               | Up to 95% non-condensing                               |

AEGPS-PV.LoG/PV.LoG+/PV.SerV/PV.SerV-EN-03-2012-V1 - Due to our policy of continuous development, the data in this document is subject to change without notice. AEG is a registered trademark used under licence from AB Electrolux.

For further information  
 please refer to our website:

solar@aegps.com  
 www.aegps.com

**AEG**  
 POWER SOLUTIONS