

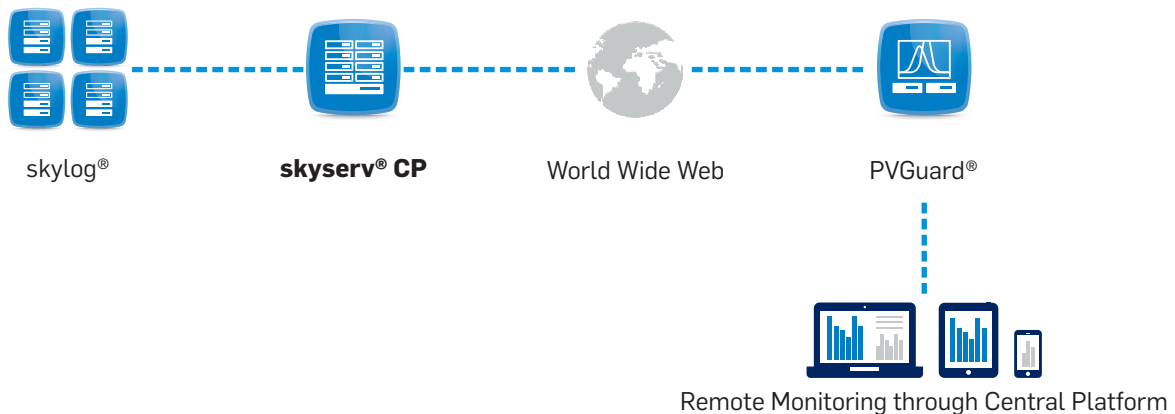
# skyserv<sup>®</sup> CP

## Data Server for Photovoltaic Power Plants



Our data server for on-site data storage of utility-scale photovoltaic installations provides enhanced local storage facilities and data backup for one year. At the same time skyserv<sup>®</sup> CP prepares the incoming data from the local data loggers for broadband transfer to the external long-term data hosting server, i.e. by way of data compression, filter-

ing and preprocessing. Even in the event of internet failure the data server ensures data consistency and backup as it allows filling data gaps that would otherwise occur. We recommend installing one skyserv<sup>®</sup> data server for every 20 MW section of a PV power plant.



skyserv<sup>®</sup> CP Data Server integrated in skytron<sup>®</sup> energy's Monitoring System

## PRODUCT OVERVIEW

- > On-site data server of a complete monitoring system for utility-scale photovoltaic power plants
- > Basis for verifying long-term energy production
- > Central interface to the skytron<sup>®</sup> energy database
- > Prepared for broadband Internet connection

## FEATURES

- > Storage, compression, filtering and preprocessing of monitoring data, such as:
  - inverter state, failure state, energy production (skylog<sup>®</sup>)
  - bipolar currents, system voltage, status of overvoltage protector, status of DC main switch (ArrayGuard<sup>®</sup>)
  - energy meters (EnergyGuard)
  - temperature sensors, reference cells, pyranometers, analog sensors and actuators (skyCONNi)
- > Transfer of incoming data to the external long-term data hosting server via broadband Internet.





## TECHNICAL DATA

	1SSA00851	1SSA00651
<b>DATA SERVER HARDWARE</b>		
Processor	Intel® Xeon® processor	Intel® Atom™ processor
RAM	4 GB	2 GB
HDD	RAID Level 1	100 GB HDD, or 120 GB SSD (RAID Level 0)
1 DC UPS	optional	24 V DC with 2 batteries, AGM 12 V, 40 Ah
1 Ethernet switch	optional	included
<b>SOFTWARE</b>		
Operating Software	Linux	
Application Software	skytron® product-specific software	
<b>INTERFACES</b>		
Ethernet, FOC	optional	single mode
Ethernet, copper	2x RJ45 interface	6x RJ45 interface
<b>Internal Plant Communication</b>		
Protocol	Gigabit-Ethernet-NIC via RJ45 Ports, skytron® energy specific communication	IP Ethernet, skytron® energy specific communication
Data rate	10/100/1000 Mbits/s	10/100 MBit/s
<b>ELECTRICAL DATA</b>		
Power supply	100 to 240 VAC / 50 Hz to 60 Hz mains	85 to 264 VAC / 44 Hz to 66 Hz mains
Power consumption	max. 350 W	max. 276 W
<b>MECHANICAL DATA</b>		
Dimensions h x w x d	1HU 42.8 x 434 x 660.2 mm / 1.7 x 17.1 x 26.0 (with bezel)	700 x 500 x 250 mm / 27.6 x 19.7 x 9.8 in
Mounting type	rack mounted	wall mounted
Weight	-	30 kg; 33 kg with package / 66.1 lb; 72.8 lb with package
Material of cabinet	-	steel, powder-coated
<b>CONFORMITY</b>		
Standards	IEC 60950-1, UL	UL 60950-1, CSA C22.2 No. 60950-1, EN 60950-1, EN 61000-6
<b>AMBIENT CONDITIONS</b>		
Operating temperature	+10 °C to +35 °C / 50 °F to 95 °F	-20 °C to +45 °C / -4 °F to +113 °F
Storage temperature	-15 °C to +60 °C / 5 °F to 140 °F	-20 °C to +70 °C / -4 °F to +158 °F
Relative air humidity	up to 80 % non-condensing	up to 95 % non-condensing
<b>OPTIONAL ACCESSORIES</b>		
Industrial-type router DSL, SAT or UMTS	-	optional



skyserv® CP PV08.51



skyserv® CP PV06.51