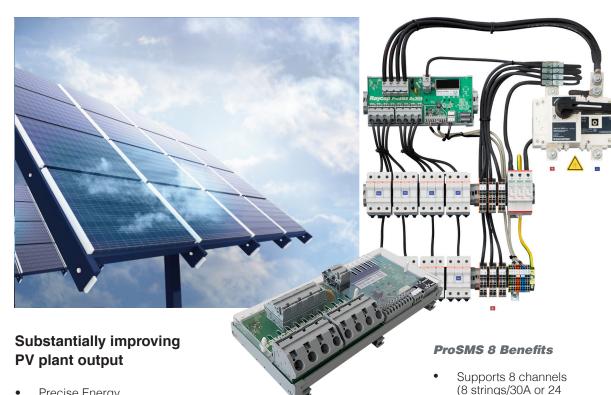


PRODUCT APPLICATION NOTE

ADVANCED STRING MONITORING Photovoltaic Solutions ProSMS

ProSMS 8

Monitoring Solutions for Photovoltaic Applications



The Raycap
ProSMS 8 string
monitoring device
compares and
analyzes minimum
and maximum
current per string
from information
collected
between two
master readings.
Such analitics
helps to detect
preconditions for
arcing.

- Precise Energy measurements per channel
- Dynamic average values (true values of I and U)
- Min-Max values reporting for any read-out period
- Indirect monitoring of also other PV equipment (PV Plant Profit Control)

Substantially decreasing operational costs by better predictive maintenance

- Lightning detection and localization
- Bipolar measurements (reverse currents detection)
- Precise Energy comparison between Strings, against Inverter and Transformer.
- Power terminals and Power supply under monitoring
- Modbus Communication Diagnostics

- strings/10A)
- 30 A per channel
- No external power supply needed
- Integrated surge protection for signalling /data lines and inputs
- Detects bad contacts which may be preconditions to arcing



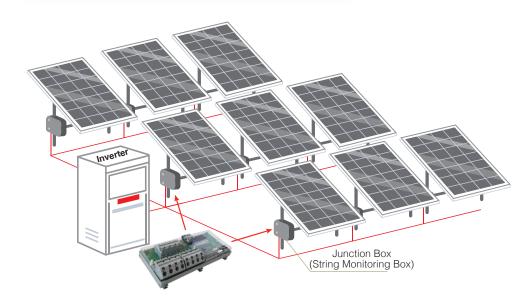


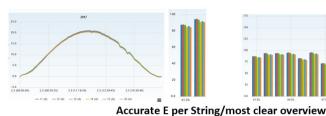


Operation of Raycap string monitoring system tracks the production losses in a very accurate way and helps operators to make good business decisions.

Unique Features

- Clear overview over strings but also over Inverters, connections, Transformer
- Long lifetime, due to NO electrolytic capacitors, thick Fiberglass base and High Temperature plastic enclosure.
- According to new IEC PV standard, released in April 2017.









Dynamic AVG values

Min/Max value of every period is recorded

AVG (blue), Max (green), Min (red) current of



Bipolar measurements



Communication Report











one string



True and integrated



www.raycap.com