

Technical Specifications Sheet

The SWF series solar logger is a powerful device with a rich web analysis feature providing the user an understanding of PV performance from strings to inverters for their system. SWF collects data from Revenue Meters, Inverters, Grid AC System, Strings forming a complete integrated monitoring package.

Two full options are available for software analysis:
Direct WEB access or CLOUD data access

SWF Series PV Data Logger



Embedded WEB Server with multiple I/O

CORE FUNCTIONS	SPECIFICATION
Function	Solar Monitoring Data Logger and WEB Unit
Sensor Monitoring	Irradiation and Temperature Sensors
Inverter Monitoring	Up to 25 inverters max (RS485 and TCP)
HARDWARE	
CPU	ARM9
Operating System	Embedded Linux
Memory	128MB Non-Volatile Memory for Storage
Communications	Modbus RTU, Modbus TCP, Customized Protocol
Wi-Fi	IEEE802.11b/g/n, 2.4 GHz
Logging Frequency	10 min.
Power Supply	5VDC
DIGITAL AND ANALOG I/O	
Digital Input	3 Digital Input
Analog Input	2 Analog Input
SOFTWARE AND WEB	
Basic Measurements	Inverter Power, Inverter Energy, Irradiation, Temperature
I/O	Revenue Meter Pulse, Revenue Meter Power, SPD, Disconnecter Status
Advanced Measurements	Expected Power, Expected Energy
Alarms	Inverter Alarms, I/O Alarms by Email and WEB
Direct WEB Access	Single Project Analysis
CLOUD WEB Access	Multi-Project Analysis and Management
OTHER FUNCTIONS	
Operating Temperature	-20°C to 60°C
RoHS	YES
Dimensions	160mmx86mmx30mm
Power Consumption	<5W
Certifications	CE EMC/LVD/FCC

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CORE FUNCTIONS	SPECIFICATION
Function	Solar Monitoring Data Logger and WEB Unit
Grid Monitoring	Monitoring and Control of MCCB Breaker Operation Monitoring of Revenue Meters
Sensor Monitoring	Irradiation and Temperature Sensors Irradiation and Temperature Sensors
Inverter Monitoring	Up to 40 Inverters max (RS485 and TCP) Up to 25 inverters max (RS485 and TCP)
String Monitoring	Up to 10 Array Box String Monitoring
HARDWARE	
CPU	ARM9
Operating System	Embedded Linux
Memory	128MB Non-Volatile Memory for Storage
Communications	Modbus RTU, Modbus TCP, Customized Protocol
Logging Frequency	10 min.
Power Supply	24VDC
DIGITAL AND ANALOG I/O	
Digital Input	6 Digital Input
Analog Input	6 Analog Input
Relay Output	1 Relay FORM C Output
SOFTWARE AND WEB	
Basic Measurements	Inverter Power, Inverter Energy, String Power, String Energy, String Performance, Irradiation, Temperature
I/O	Revenue Meter Pulse, Revenue Meter Power, SPD, Disconnecter Status, AC Grid System Tripping Alarm from Protection Relay
Advanced Measurements	Expected Power, Expected Energy, String Performance
Alarms	Inverter Alarms, String Alarms, I/O Alarms by Email and WEB
Direct WEB Access	Single Project Analysis
CLOUD WEB Access	Multi-Project Analysis and Management
OTHER FUNCTIONS	
Operating Temperature	-20°C to 70°C
RoHS	YES
Dimensions	164mmx118mmx60mm
Power Consumption	<5W
Certifications	CE EMC/LVD/FCC