

LDW-3

DIN-Rail Logger

DIN-Rail logger (LDW-3) is mainly used for long-term and effective monitoring of PV system by collecting and recording the working status and power generation of inverters. It can be connected with multiple inverters to receive various information of the PV system from the inverter side and transmit the data to the SOLARMAN platform through WiFi/Ethernet. It is useful to realize various operations such as data collection and reporting of the inverters, configuration issuance and firmware upgrading.



I Applicable Scenarios

Suitable for small and medium-sized C&I solar plant where there is a need for multiple inverters to collect data in a unified manner.

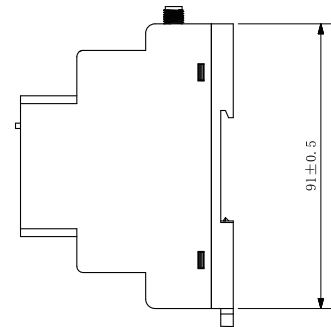
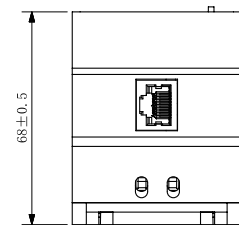
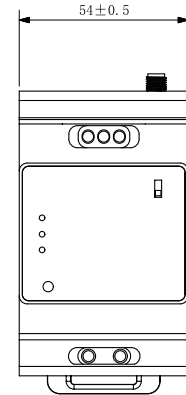
- Implement real-time monitoring and management of new energy device
- Realize device remote upgrade
- Analyze and optimize production data to achieve refined O&M
- Timely fault location and troubleshooting

I Features

- Standard DIN-Rail logger, compact size for easy installation
- Integrated power supply to cope with wiring troubles
- Support data transmission via WiFi or Ethernet, high adaptability across different scenarios
- Support local/remote debugging and diagnosis with or without network
- Support standard Bluetooth, pair with SOLARMAN APP easy for daily O&M
- Support two-way direct transmission with data encrypted
- Multiple physical interfaces, applicable to mainstream inverters
- Supports breakpoint resuming
- Supports data and fault acquisition in millisecond
- Customized external antenna to enhance WiFi signal quality

I Parameters

Communication Parameters	
Remote Communication	WiFi/Ethernet
WiFi Standard	802.11b/g/n
WiFi Frequency Range	2.412GHz-2.472GHz
WiFi Transmitting Power	802.11b: +17dBm ± 1.5dBm (@11Mbps) 802.11g: +15dBm ± 1.5dBm (@54Mbps) 802.11n: +14dBm ± 1.5dBm (@HT20, MCS7)
WiFi Receive Sensitivity	802.11b: -96dBm (@1Mbps) 802.11b: -89dBm (@11Mbps) 802.11g: -91dBm (@6Mbps) 802.11g: -76dBm (@54Mbps) 802.11n: -91dBm (@MCS0) 802.11n: -73dBm (@MCS7)
BLE Wireless Standard	BLE5.0
BLE Frequency Range	2.402GHz-2.480GHz
Bluetooth Transmitting Power	Max 15dBm
BLE Receive Sensitivity	-97 dBm
Antenna Type	SMA Suction Cup WiFi Antenna
Ethernet Standard	IEEE 802.3
Ethernet Rate	10/100M Base-T Adaptive
Interface	RJ45
Hardware Parameters	
Data Interface	RS485
Data Storage	4MB
Working Voltage	AC 150~380V
Working Power	< 2W
Maximum Instantaneous Power Consumption	2.5W
Indicator Light	One shows stick logger running status One shows communication status with inverter One shows Ethernet status
Working Temperature	-30 C ~+70 C
Working Humidity	10%-90% RH, no condensation
Storage Temperature	-45 C ~+90 C
Storage Humidity	<40% RH, no condensation
Installation	Rail type
Software Parameters	
No. of Connections	1 to 10
Serial Communication Rate	Default: 9600bps(1200-115200bps configurable)
Data Transmission Interval	Default: 5 mins
User Configuration	Remote server/APP configuration
Firmware Upgrade	Remote Upgrade
Real-time Control	√
Breakpoint Resuming	√



Unit: mm, Accuracy: ±2%

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