HBEONLABS
Technologies Pvt. Ltd.

Solar Inverter Data Logger

Designed and manufactured by HBeonLabs, the Hbeonlabs DataLogger is a compact and affordable IoT solution tailored for the solar industry. It is capable of connecting to solar inverter via multiple interfaces, enabling seamless data transmission to both local and remote monitoring platforms over Wi-Fi/GSM.

Designed for real-time visibility and control, the HbeonLabs DataLogger supports:

- Data acquisition and reporting on cloud (in India)
- Remote configuration and deployment
- Firmware upgrades over-the-air (OTA)
- Real-time monitoring and control

Whether for residential solar setups or industrial installations, the HbeonLabs datalogger delivers reliable connectivity and intelligent control — empowering smarter, more efficient solar energy management.

Features

Reliable&Stable

- IP64 water-resistant Support breakpoint resuming

High Compatibility

- Compatible with multiple inverter interfaces
- Built-in twin architecture for fast customization and seamless integration

Excellent Performance

- 4G/Wi-Fi 4 enabled for faster, more reliable connectivity
- Encrypted two-way data transmission
- IV curve diagnosis and fault recording support

Easy to use

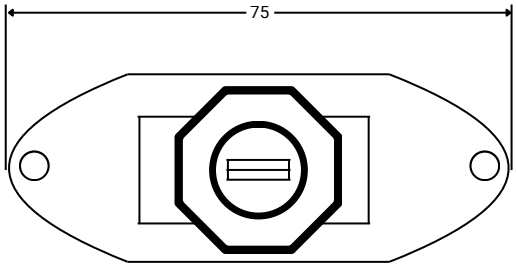
- Rapid data and fault reporting on cloud
- Batch device provisioning enables quick setup of multiple units simultaneously
- Supports both local and remote debugging and diagnostics

Model:-

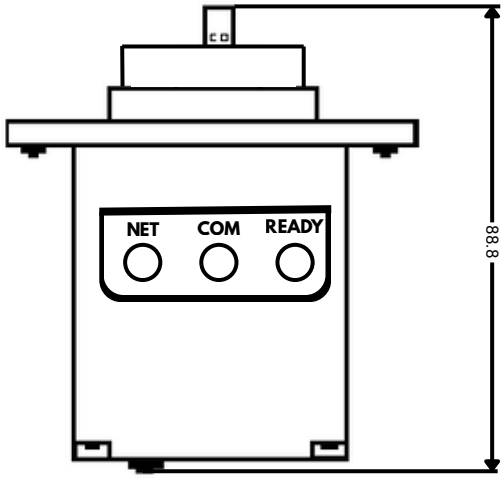
Hbeon-DLWU

Product Parameter

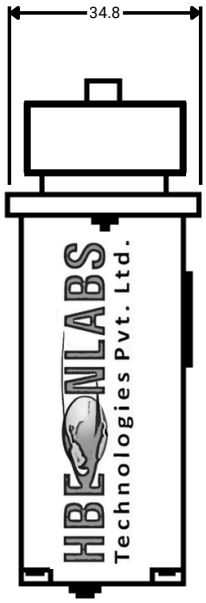
Top View



Front View



Side View



Unit: mm, Accuracy: ±2%

Communication Parameter	
Remote Communication	WiFi 4
WiFi Standard	802.11b/g/n
WiFi Frequency Range	2.412GHz-2.472GHz (CH1~CH13)
WiFi Transmitting Power	802.11b:+17dBm±1.5dBm(@11Mbps) 802.11g:+15dBm±1.5dBm(@54Mbps) 802.11n:+14dBm±1.5dBm(@HT20,MCS7)
Bluetooth Standard	BLE5.2
Bluetooth Frequency Range	2.402GHz-2.480GHz
Bluetooth Transmitting Power	Max 7dBm

Hardware Parameter	
External Interface	USB2.0, DB9
Data Interface	USB，RS485，RS232，TTL
Data Storage	2-4 MB
Working Voltage	DC 5-12V
Working Power	2W
Indicator Light	One shows stick logger running status One shows communication status with inverter One shows communication status with server
Working Temperature	-30℃~+70℃
Working Humidity	10%-90%, no condensation
Storage Temperature	-45℃~+90℃
Storage Humidity	<40%, no condensation

No. of Connections	One
Serial Communication Rate	Default: 9600bps(1200-115200bps optional)
Data Transmission Interval	Default: 5 mins
User Configuration	Remote server/APP configuration
Firmware Upgrade	Local/Remote upgrade
Real-time Control	√
Breakpoint Resuming	√