

Photovoltaic Desk Sign Specification

Version:V1.1



PRODUCT NAME: Photovoltaic Desk Sign

PRODUCT MODEL: DMIF1085RBP1

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1 DESCRIPTION

The Photovoltaic Desk Sign is an eco-friendly, low-carbon device that harnesses low-light photovoltaic technology to sustain continuous energy. By integrating wireless technologies such as Bluetooth and NFC with smartphones, base stations, and cloud-based management systems, this intelligent, paperless device allows for seamless updates to its electronic paper display. It is ideal for static display scenarios without wiring, making it perfect for exhibition halls, conferences, offices, and service industries.

The DMIF1085RBP1 Photovoltaic Desk Sign features a double-sided 10.85-inch electronic paper display with three colors (black, white, and red), offering a glare-free, soft visual experience with a wide viewing angle. Utilizing indoor photovoltaic technology, it stores energy in a lithium polymer battery. The integrated photovoltaic cells continuously harvest energy from indoor lighting and recharge the device. When adequate light intensity and duration are available, it can operate indefinitely without the need for external power. This makes it a highly energy-efficient, environmentally friendly, and innovative product.

2 FEATURES

1. Indoor photovoltaic

It can continuously recharge under indoor lighting and is designed for long-term use in environments with adequate lighting. The device intelligently manages power consumption by adjusting its operation based on the available light, automatically entering sleep mode in low or bright lighting conditions. If the battery depletes due to prolonged insufficient lighting, emergency use is possible via the USB Type-C interface.

2. E Ink display

information on the screen if it is powered off. A default screen can also be set before meetings and automatically switch off when meetings end. All without the glare or reflection of standard displays. What's more, there's no flicker when a nameplate is filmed or broadcast. The end result is an incredibly efficient device that excels in legibility.

3. Wireless transmission

In a wiring-free application scenario, Bluetooth 5.0 BLE and Near-Field Communication (NFC) technology enable high-speed, low-power wireless transmission. The system uses standard protocols for stability, reliability, and broad compatibility. To meet security requirements, it incorporates data encryption, account binding, and local transmission restrictions.

4. Multi-platform management

Support point-to-point and point-to-multiple device management of smart terminals: cell phones and tablets.

Support base station networking and background management platform.

Support remote control in the cloud and local LAN management.

5. Front & Back Screen

With a screen at the front and the back, Good Display Nameplate gives everyone relevant information. Since both screens work independently, every participant sees just what he or she needs. Combined with a badge reader, Good Display Nameplate can automatically display the participant's name as soon as a card is touched by NFC.

Finally, Good Display Nameplate has a request to speak button at the base and an indicator at the top of the screen. It allows participants to easily signal that they want to intervene and it gives chairpersons an easy indication of requests.(Optional)

3 SPECIFICATION

Category	Specifications
Type	DMIF1085RBP1
Screen size	10.85 inch double-sided e-paper display
Display area	259.76×91.68 mm
Resolution	1360(H)×480(V)
DPI	133
Color	Black/White/Red

Grayscale	2Grey Level
Visual angle	Nearly 180 degrees
Product size	284*87*130mm
Weight	780 + 5g
Operating temperature	0°C ~ 40°C
TRNF	PV panel charging, lithium polymer battery energy storage
Vdc	3.85V
Working current	Average standby current <0.1mA; peak current 600mA
PV E energy harvesting	170*35 Photovoltaic sheet*2
Lighting conditions	10 hours per day under 300Lx light
Emergency power supply	USB type-c interface
Communication mechanism	bluetooth 5.0 BLE; NFC ISO/IEC14443 – A
Wireless frequency band	bluetooth 2.402~2.480GHz; NFC 13.56Mhz
Maximum communication distance	Bluetooth 20m; within of NFC 10mm