

4.3 Inch LCD Display

User Manual

Heltec Energy

1. Product Appearance

The product appearance is shown in Figure 1.



Figure 1. Product Appearance

2. External Interface

The external interface is shown in Figure 2.



Figure 2.

User Interface: used for power supply and serial port signal connection.

Socket type: HY2.0 mm-8P horizontal sticker.

3. Technical Parameters

3.1 General Parameters

Parameters	Data
Category	TFT
Size/Resolution	95.0mm(W)×53.9mm(H)/480*272
Display Color	65K True Color
Backlight type/Brightness	LED/300nit/m2
Viewing Angle L/R/U/D	70 °/70 °/50 °/70 °
Working Temperature/Storage Temperature	-20~+70°C/-30~+85°C
SD Card Interface	SD/SDHC

3.2 Power Supply

Parameters	Minimum Value	Maximum Value
Supply Voltage (with power reverse polarity protection)	6V	36V
Power Consumption	1.4W (12V@116mA)	

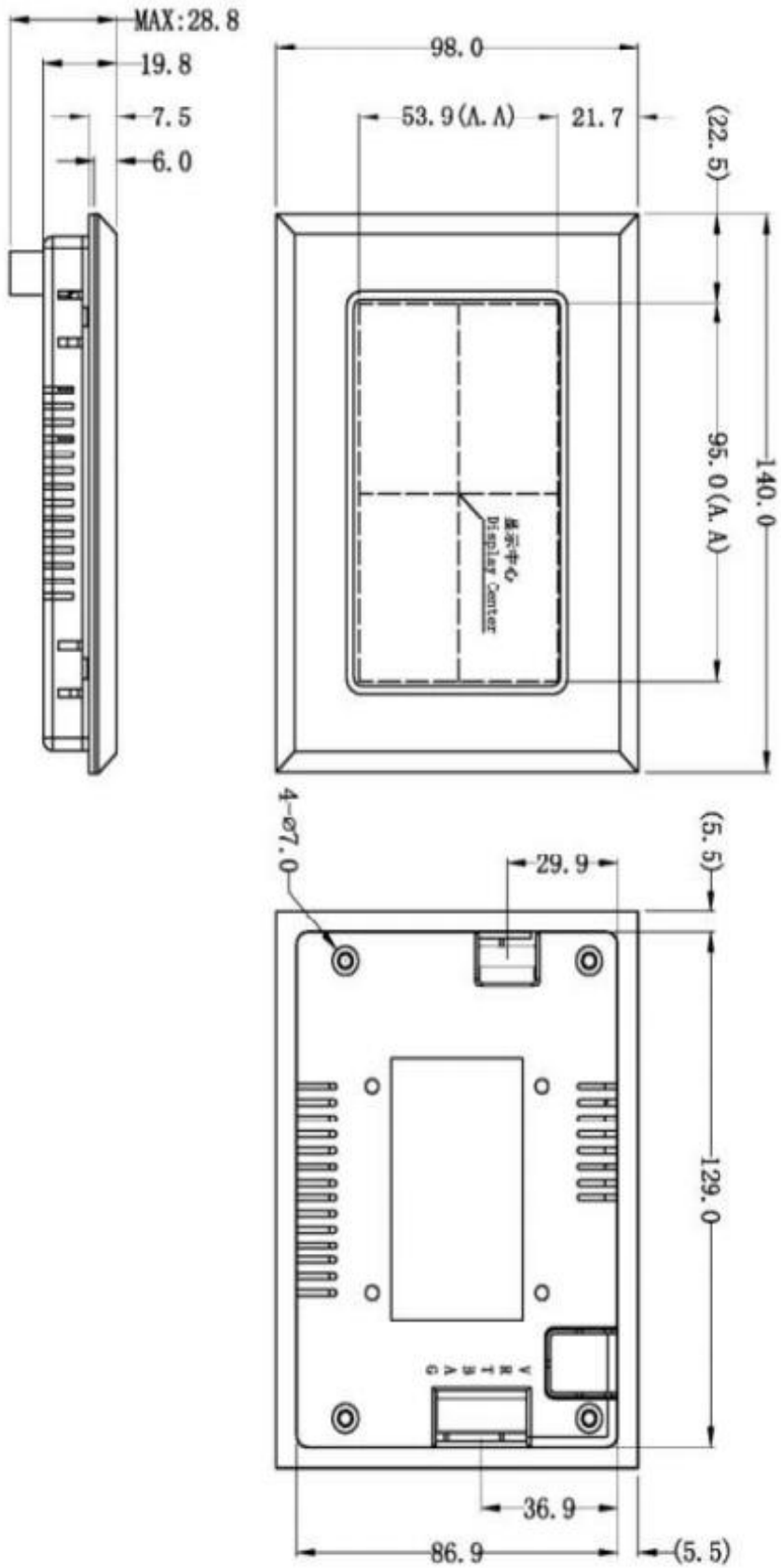
3.3 Pin Definition

Pin Number	Pin Name	Pin Description	Pin Number	Pin Name	Pin Description
1	GND	Ground	5	NC	Undefined
2	GND	Ground	6	485-	Serial Port RS-485 Signal B
3	485+	Serial Port RS-485 Signal A	7	VCC	Power Supply
4	NC	Undefined	8	VCC	Power Supply

3.4 Working Environment and Reliability Parameters

Parameters	Test Environment	Min Value	Typical Value	Max Value	Unit
Working Environment	60% humidity at 12V	-20	25	70	°C
Storage Temperature	-	-30	25	80	°C
Working Humidity	25°C	10%	60%	90%	RH

4. Product Dimensions



5. Installation Steps

第一步：将HMI嵌入到所开的孔中；
Step.1: Embed the HMI in the hole;



图中红色位置为卡扣安装孔
上图为俯视图，HMI底部有同样两组卡扣安装孔



The mounting holes are marked by the red circles.
The picture above shows the top view ,there are the same mounting holes on the other side.

第二步：如图所示，将卡扣置入安装孔中；
Step.2 : Place the buckles into the mounting holes as shown;



第三步：旋紧螺丝，将HMI固定在设备上。
Step.3 : Tighten the screws to fix the HMI on the device.

6. Cables

Total length of protection board-ended cable: 0.5 m.



Total length of display-ended cable: 2.5m.

