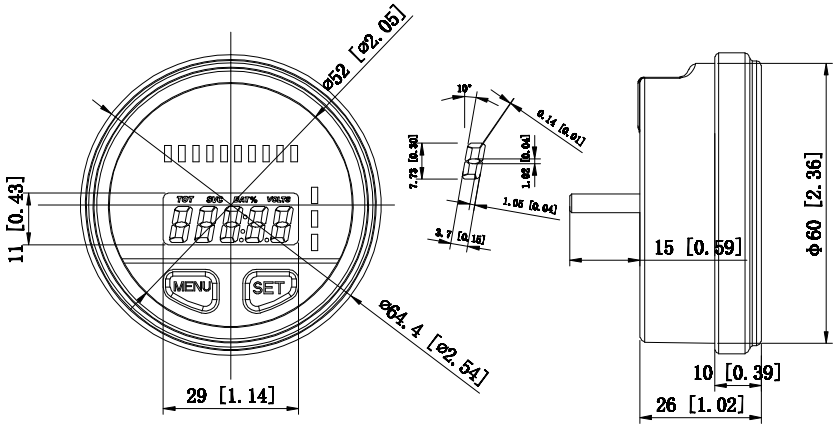
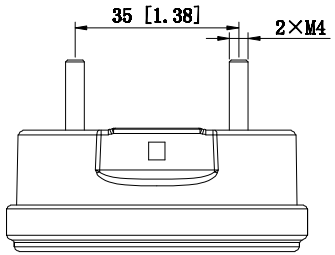
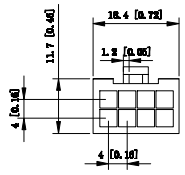
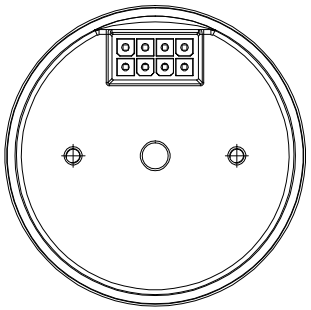
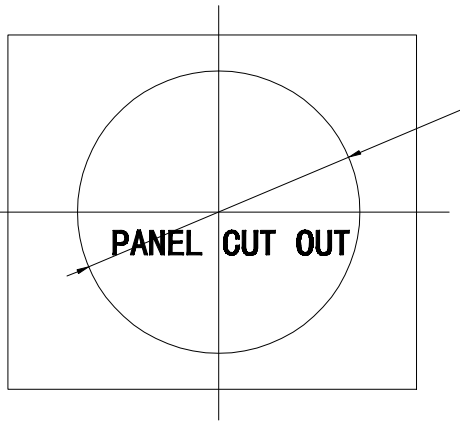
REVISIONS			
REV.	DESCRIPTION	DATE	INIT
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1			

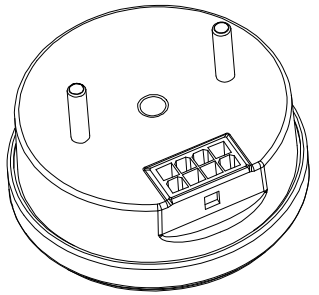


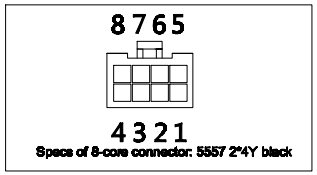












1	Negative pole of power supply, connected to the negative pole of battery
2	Control port of high level timing
3	Key switch, connected to the positive pole of battery
4	Positive pole of power supply, connected to the positive pole of battery
5	Output port of 5V voltage signal
6	Communication port, TTL level, unused
7	Communication port, TTL level, unused
8	Control port of low level timing

Items	Parameters
Housing material	ABS
Product dimension	64.4*41mm
Display window size	29*11mm
Operating voltage	DC 8-60 V
Operating temperature	-20℃ TO 65℃
Waterproof rate ture	IP65
Voltage accuracy ure	<±0.5%
Timing accuracy	24H error <±10S
Weightccuracy	52g

1. Display:
   - 10 red LED lights and 3 bi-color lights(red & green).
   - LCD display, viewing angle is 6'Clock.
   - Working temperature of LCD screen: -30℃-80℃.
   - Backlight color: white.
2. Battery testing function:
   - It can be applied to 9 types of voltage discharge curves.
   - When key switch is turned on, the gauge automatically recognizes the battery voltages from 12V/24V/36V/48V.
   - The delay display function of battery power: The battery power is going down one LED bar by one LED bar when discharging. The delay time among each LED bar is 155 seconds.The battery power is going up one LED bar by one LED bar when charging. The delay time among each LED bar is 200 seconds..
   - Remind method: LED reminding.
3. Voltage function:
   - Low voltage reminder, setting range: 8.5-59V or it can be closed;
   - High voltage reminder, setting range: 12-60V or it can be closed;
   - Measure the current voltage in real time; display like xx.xxV;
   - Voltage reminding method: LED reminding.
4. Timing function:
   - Timing method: connect the positive pole or negative pole of battery to start timing.
   - Timing range: 0-99999H; when the total hours range is 0-9999.9H, the timing accuracy is 0.1H; when the total hours range is 10000-99999H, the timing accuracy is 1H.
   - Initial time setting: The initial time value can be preset within 1H of engine or equipment operation.
   - SVC time: setting range is 0-2000H;
   - SVC remind method: LED reminding.
5. Backlight function: backlight operation mode can be set into ALWAYS ON, AUTOMATICALLY or OFF.
6. Output function: when the battery power is ≥10%, it will output 5V signal; when the battery power is <10%, it will output 0V signal;
7. Data save: The unit has built-in EEPROM, so the data will be stored after unit is powered off and the storage time is up to 20 years.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: .X± .1 .XX± .02 .XXX± .005 X°± 1°	DRAWN	DATE	Runleader® NINGBO JIANGBEI RUN LEADER ELECTRONICS CO., LTD WWW.RUN-LEADER.COM
	CHECKED	DATE	
	APPROVED	DATE	
	MATERIAL N/A	PROJECTED VIEWS ARE 3RD ANGLE	TITLE Battery Indicator
COMPUTER GENRATED DRAWING-NO MANUAL CHANGES ALLOWED	FINISH N/A		SIZE B / PART.NO. RL-BI025
	DO NOT SCALE DRAWING	STATUS DS4_DESIGN	SCALE NTS / SHEET 1 OF 1 / PROJECT NO. 003 / REVISION 0