

36139-ME

Multi Purpose DC Panel Meter

Snap-in, programmable, multifunction Backlit LCD meter with dual 4 digit display for monitoring and control of loads and charging/discharging batteries.

Measures: Voltage, Current, Power, Charge/Discharge Time, Charge/Discharge Capacity and Temperature.

Parameters Retained with power off

Input Voltage: DC 5 V-38 V

Input Current: .03A-5A (Meter Operating current: $\leq 30\text{mA}$)

Accuracy:

Voltage: 1% + 1 LSD

Current: 1% + 1 LSD

Operating Temperature: $-15\text{ }^{\circ}\text{C} \sim 50\text{ }^{\circ}\text{C}$

Humidity: 0-95% RH

Protection Alarms:

Under Voltage (LVP): Adj. 4.8-38VDC, (default 4.8 V)

Over Voltage (OVP): Adj. 4.8-38VDC, (default 38 V)

Over Current (OCP): Adj. 0.5A-5.5A range (default 5.5A)

Over Power Ahu (OPP): Adj. 1W-200W (default: 200W)

Over Temperature (OTP): Adj. 40-80 $^{\circ}\text{C}$ (default 80 $^{\circ}\text{C}$)

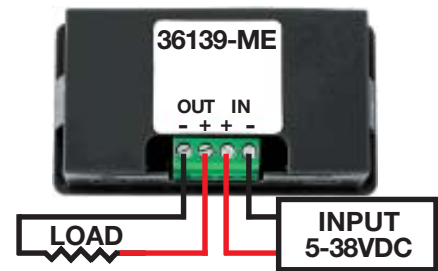
Over Discharge Time (OHP): Adj. 00:01-99:99min/sec.
(default 00:01)

Cutout: 75mm x 39mm

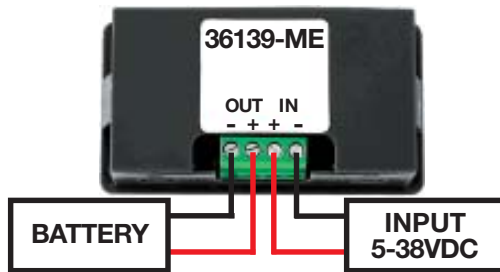
W: 3-1/16" (79mm) **H:** 1-11/16" (42mm) **D:** 1-1/16" (26mm) **WT:** .1

WARNING:

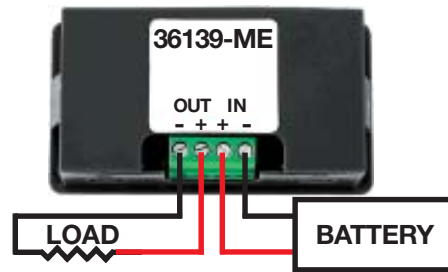
INPUT + AND OUTPUT + ARE CONNECTED TOGETHER INTERNALLY



GENERAL LOAD
MONITORING



BATTERY CHARGE
TESTING



BATTERY DISCHARGE
TESTING

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MARLIN P. JONES & ASSOC., INC.

P.O. Box 530400 Lake Park, FL 33403

800-652-6733 FAX 561-844-8764

WWW.MPJA.COM

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Multi Purpose DC Panel Meter

NORMAL OPERATING DISPLAY MODE

GENERAL

1: Short Press: Momentary (Press & Release)

2: Long Press: Press & Hold for >3sec. (Release after 3)

Functions:

1: Short Press the "ON" button Turns Output ON/OFF (Alternate Action)

2: Long Press the "ON" button to Switch between "Normal" Display Mode & "Set" Mode (Alternate Action)

3: Short Press "SW" button to Scroll through Lower Display Measurements

Current (A)-Power (W)-Discharge Capacity (Ahr)-Discharge Time (MM:ss)

4: Long Press "SW" button to switch Upper Display between Voltage or Temperature (Alternate Action)

5: Long Press "-" button to Clear Discharge Capacity or Time when Display shows that Parameter

BUTTON FUNCTION SUMMARY

BUTTON	NORMAL MODE	SET MODE	ALARM MODE
1: ON	Short Press: Load On/Off Long Press: Alternate Normal/Set Modes	Short Press: Enable OHP & OAP Set Set OUT On/Off at Power On Long Press Exit Set Mode	Short Press: Silence Alarm
2: SW	Short Press: Scroll Through Displayed Parameters Long Press: Swap Voltage for Temperature on Display	Switch Parameters to Adjust N/A	N/A N/A
3: +	N/A	Parameter Value Short Press: Incremental Increase Long Press: Continuous Increase	N/A
4: -	Long Press: Clear Discharge Capacity or Time when shown on Display	Parameter Value Short Press: Incremental Decrease Long Press: Continuous Decrease	N/A

NORMAL MODE DISPLAYS



VOLTAGE & CURRENT

VOLTAGE & POWER

VOLTAGE & DISCHARGE

VOLTAGE & DISCHARGE TIME (MM:ss)

TEMPERATURE & POWER



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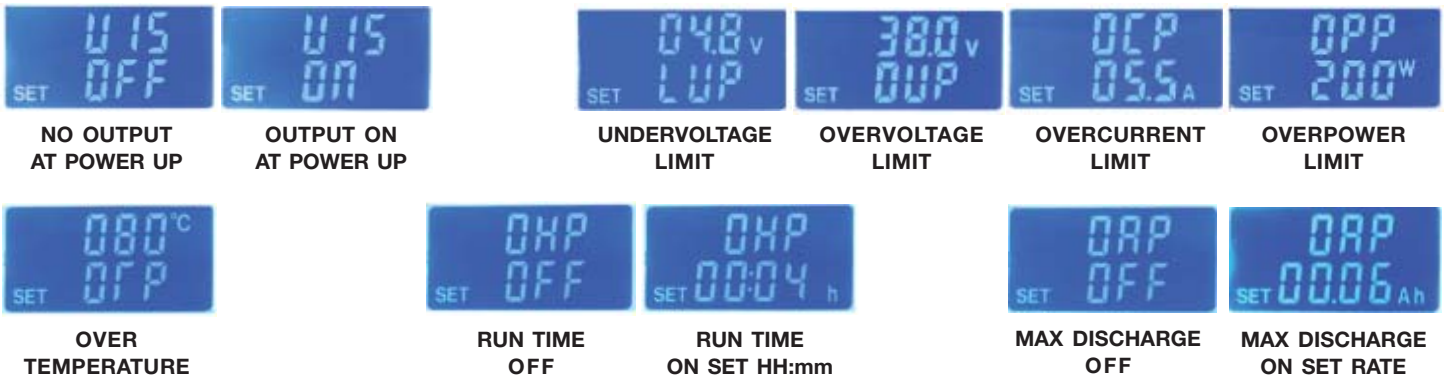
Multi Purpose DC Panel Meter



PARAMETER SET MODE (“SET” Displayed in Lower Left Corner)

- 1: Long Press “ON” button to enter Set Parameters interface.
- 2: Scroll through Parameters by a short press of the “SW” button (U15 (Out ON/OFF)/LVP/OVP/OCP/OPP/OTP/LVP/OHP/OAP)
- 3: Stop at the parameter to change.
Press the + or - button(s) to adjust value. Long Press: Fast adjust or Short Press: Incremental adjust
- 1: U15 Sets Output State at power on. Pressing the “ON” button will switch between ON/OFF (Alternate Action)
 - 2: OHP and OAP functions can be turned ON/OFF by short press of the “ON” button.
Off will Display OFF. On will Display a value, Press “+” or “-” button to adjust parameter value.
Long Press: Fast adjust or Short Press: Incremental adjust
- 5: Long Press “ON” button for more than 3 seconds to save parameters and exit the settings interface.

SET MODE DISPLAYS



ALARM MODE

GENERAL

- 1: Enters ALARM Mode when any Parameter Exceeds the Limit set.
RUN LED Flashes, Buzzer sounds and Display shows Fault parameter and Output is OFF
- 2: Short Press the “ON” button to Silence/Disable Alarm
- 3: Alarm Mode Functions

Parameter	Range	Default	Display	Alarm Function
LVP under voltage	4.8V-38V	4.8V	Display LVP	RUN LED flashing, Buzzer sounds
During battery discharge test, setting the LVP can prevent the battery from being over-discharged and damaged				
OVP over voltage	4.8-38V	38V	Display OVP	RUN LED flashing, Buzzer sounds
OCP over current	0.5-5.5A	5.50A	Display OCP	RUN LED flashing, Buzzer sounds
OPP over power	1.0-200W	200W	Display OPP	RUN LED flashing, Buzzer sounds
OTP over temperature	40-80°C	80°C	Display OTP	RUN LED flashing, Buzzer sounds
OAP over discharge	00.01-99.99Ah	00.01Ah	Display OAP	RUN LED flashing, Buzzer sounds
Turn On/Off OAP by “ON” button in set mode. It is used to set max Discharge capacity.				
OHP over time	00:01-99:99	00:01	Display OHP	RUN LED flashing, Buzzer sounds
Turn On/Off OHP by “ON” button in set mode. It is used to set operating time.				

ALARM MODE DISPLAYS

