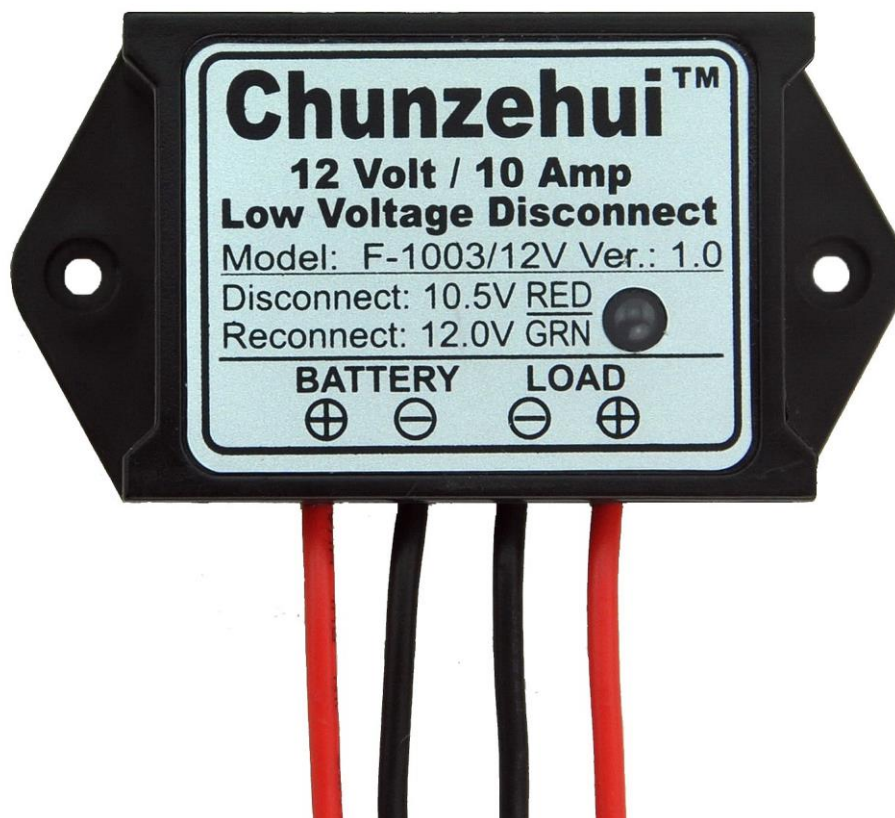


# Chunzehui Electronics-Salon

**Automatic Low Voltage Disconnect Module (LVD)  
Based on Microcontroller and Relay**

**Model: F-1003 series**



## Features:

- To protect electronics from damaging low voltages and prevent a deep discharge of a battery during an extended power outage, the LVD module will automatically disconnect the battery when the voltage falls below the cutoff voltage. When power is restored the Smart Switch will automatically reconnect the battery, thereby protecting the battery from total discharge (helping to prolong the life of the battery).
- Red-green LED indication for relay switch OFF and ON.
- Battery polarity reverse protection, if you accidentally reverse battery polarity, will not damage the battery and the item.
- Power ON delay protection, the module will be delayed for 3 seconds after power is turned on, after 3 seconds to determine the voltage value, to prevent the capture of the wrong pulse / interference voltage.
- 10 Seconds action delay protection, when the battery voltage drops to  $\leq$  Disconnect value and continuous hold time for 10 seconds, load switch will OFF. when the battery voltage rise to  $\geq$  Reconnect value and continuous hold time for 10 seconds, load switch will return to ON state. this will better prevent malfunction.

## Applications include:

- Solar systems,
- Alarm systems,
- UPS systems,
- Mobile systems,
- Or any application where you need to protect the battery from total discharge.

## Specifications:

	F-1003/12V	F-1003/24V
Suitable Battery	12V	24V
Rated current	10 Amp	
Operating voltage	3 ~ 18 Vdc	6 ~ 32 Vdc
Quiescent current (in disconnect state)	1.8 ~ 2.2mA	
Quiescent current (in connected state)	< 40mA	< 25mA
Disconnect voltage	10.5V	21.0V
Reconnect voltage	12.0V	24.0V
Disconnect/Reconnect Voltage Tolerance	+/- 0.1Vdc (max.)	+/- 0.2Vdc (max.)
Disconnect/Reconnect LED State	Red / Green	
Wires	UL #1007 16AWG	

## About customized version:

We can support customer customized order, if your order  $\geq$ 500 units, you can modify disconnect voltage / reconnect voltage / product label / logo.

# Dimensions:

