

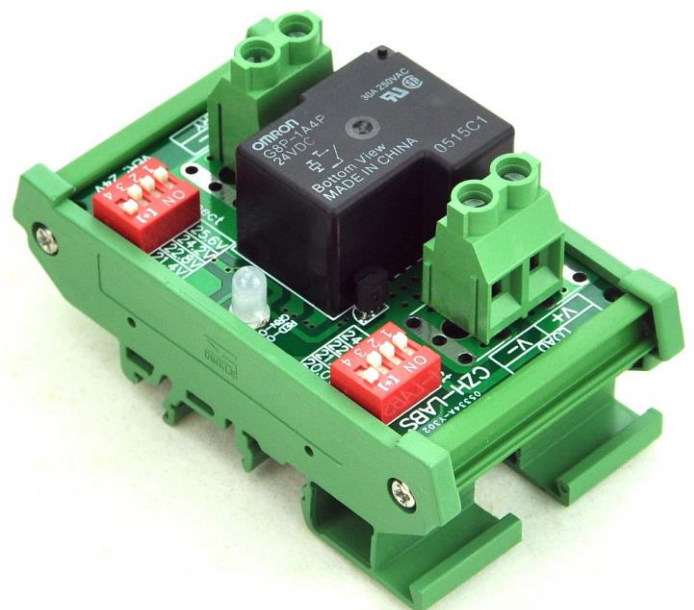
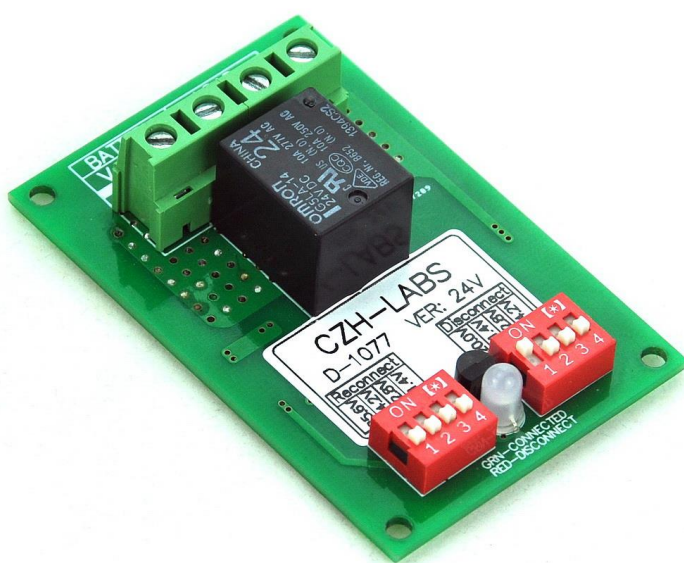
CZH-LABS

Electronics-Salon

Automatic Low Voltage Disconnect Module (LVD)

Model: D-1021 series (30A version)

D-1077 series (10A version)



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 user adjustable 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).

Applications include:

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

Features:

Programmable voltage setting for Disconnect and Reconnect.
Red-green LED indication for relay switch ON and OFF.
10/30 Amp version selectable.
Panel mount or DIN rail mount types selectable. DIN rail mount version can support width 35 / 32 / 15mm rails.

Version:

Version	Mount Type	Rated Current	Suitable Battery
D-1021/12V	Panel mount	30A	12V
D-1021/24V			24V
D-1021T/12V	DIN rail mount		12V
D-1021T/24V			24V
D-1077/12V	Panel mount	10A	12V
D-1077/24V			24V
D-1077T/12V	DIN rail mount		12V
D-1077T/24V			24V

Specifications:

	D-1021(or T)/12V	D-1077(or T)/12V	D-1021(or T)/24V	D-1077(or T)/24V
Operating voltage	3 ~ 18 Vdc		5 ~ 32 Vdc	
Rated current	30A	10A	30A	10A
Quiescent current	< 2mA		< 2.5mA	
Disconnect voltage	10.0, 10.7, 11.4, 12.1 Vdc Programmable		20.0, 21.4, 22.8, 24.2 Vdc Programmable	
Reconnect voltage	10.7, 11.4, 12.1, 12.8 Vdc Programmable		21.4, 22.8, 24.2, 25.6 Vdc Programmable	
Default setting Disconnect/Reconnect	10.0Vdc / 11.4Vdc		20.0Vdc / 22.8Vdc	
Disconnect/Reconnect Voltage Tolerance	+/- 0.2Vdc (max.) Normal < 0.1 Vdc		+/- 0.4Vdc (max.) Normal < 0.2 Vdc	

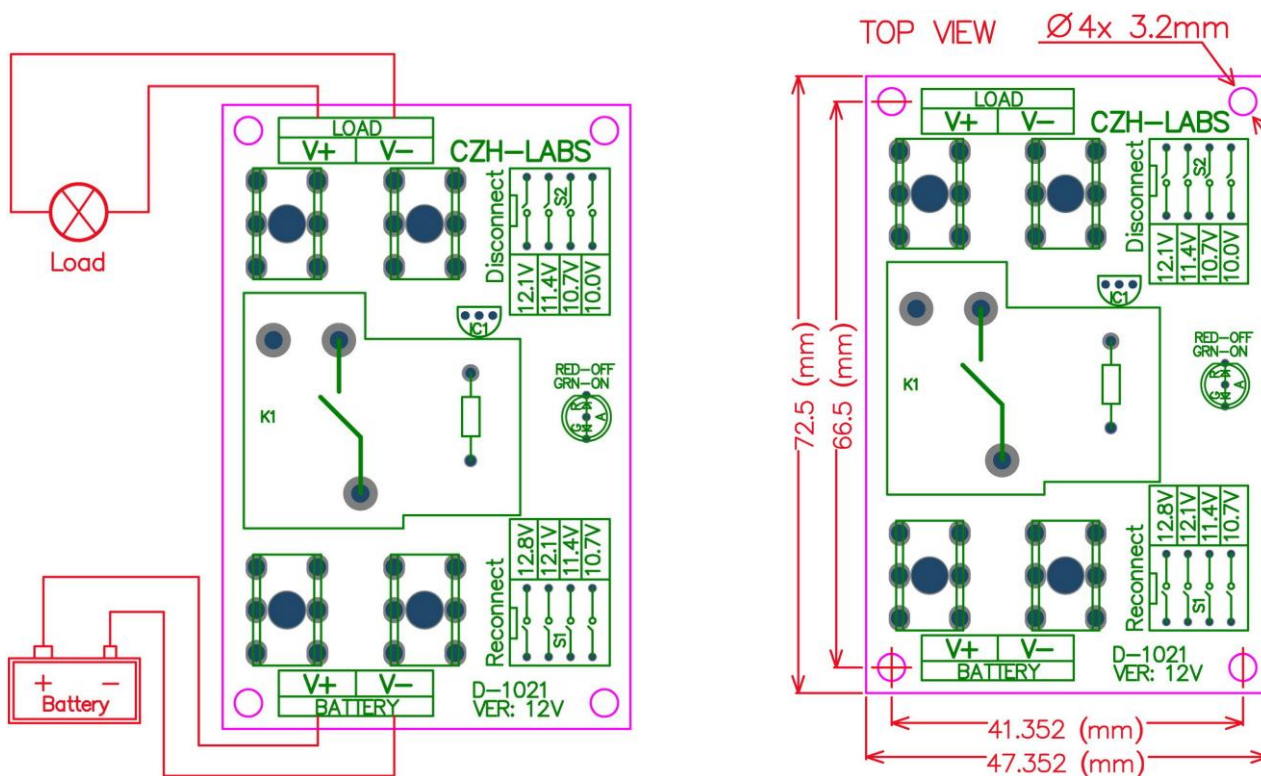
Disconnect/Reconnect LED state	Red / Green			
Terminal block wire	24~10AWG / 4.0mm ²	24~12AWG / 2.5mm ²	24~10AWG / 4.0mm ²	24~12AWG / 2.5mm ²
Panel Size	47.35 x 72.5 x 23.5mm	47.35 x 72.5 x 17.5mm	47.35 x 72.5 x 23.5mm	47.35 x 72.5 x 17.5mm
DIN Rail Mount Size	50 x 87 x 47mm	50 x 87 x 42mm	50 x 87 x 47mm	50 x 87 x 42mm

NOTE:

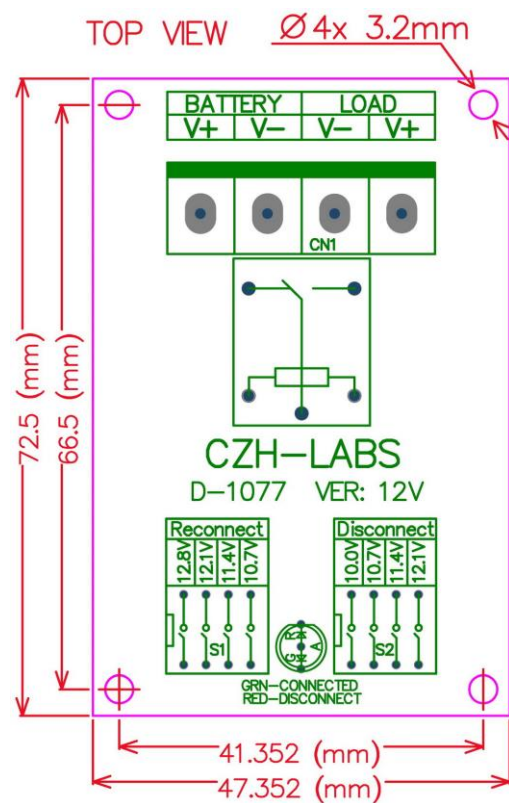
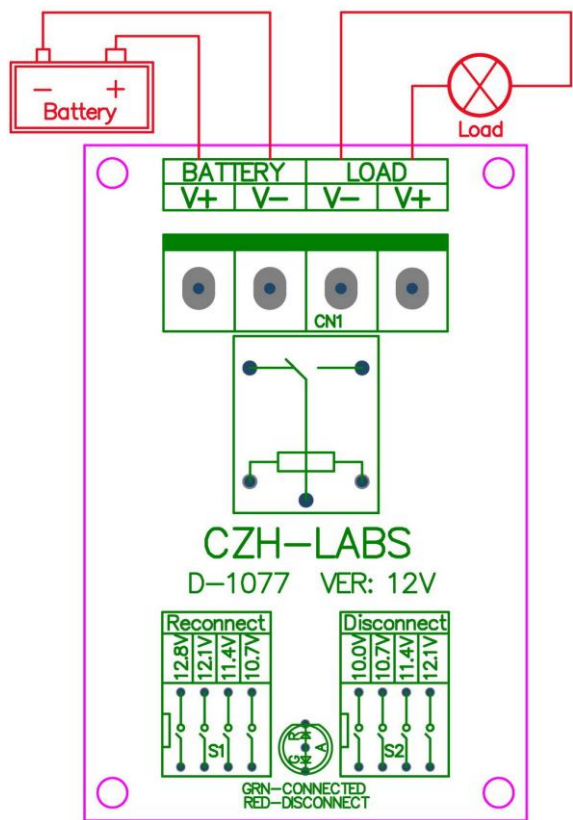
Setting disconnect and reconnect voltage, reconnect voltage must more than disconnect voltage.

PCB Mount Dimensions and Terminal Block Connect:

D-1021 series



D-1077 series



Change Notification.

1, November-28, 2017:

D-1077 12V version, as OMRON relay G5LA-14 12V discontinued, the version relay change to Hongfa JQC-3FF 12VDC.