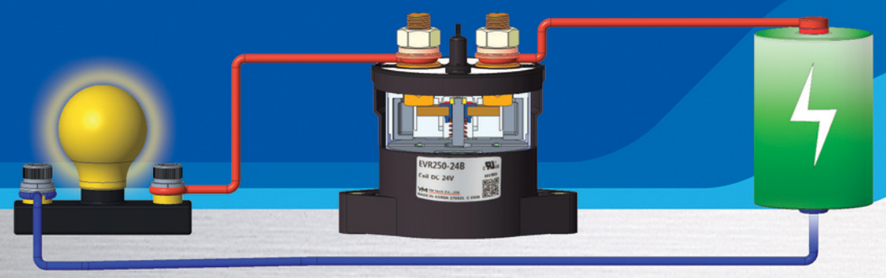
www.goodymt.com

Global leader in DC Switching

YM Tech New Product



YM Tech Co., Ltd.

본사 및 오창사업장

28125 충북 청주시 흥덕구 옥산면 과학산업 3로 38
TEL : (043)-212-6651, FAX : (043)-212-6650
http:// www.goodymt.com, http://goodymt.co.kr
E-mail : ymtech@goodymt.com

#38, Gwahaksaneop 3-ro, Oksan-myeon, Heungdeok-gu,
Cheongju-si, Chungcheongbuk-do, Korea, zip code: 28125
TEL : +82-43-212-6651, FAX : +82-43-212-6650
http:// www.goodymt.com, http://goodymt.co.kr
E-mail : ymtech@goodymt.com

China Office

Shanghai Sky International Trade co., Ltd
Add : Room F202, No.783, Shenglong Road, Shanghai, China
(上海市 松江区 盛龙路 783号 F202室)
P.C : 201615
TEL : +86(21) 33552102
M.P : +86 136 7180 6058, +86 177 1792 8686
E-mail : ym@ym-tech.cn, http://www.ym-tech.cn

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Specifications are subject to change without notice for improving product's performance.

YM Tech Co., Ltd.

YM Tech ...

YM Tech is a Korean company specialized in DC high voltage relay

Feature of YM EV Relay

1. Less noise during operation
2. Various voltage of coil
3. Built-in auxiliary contacts
4. PMW energy-saving devices(economizer)
5. DC1500V High Voltage EV Relay
6. DC Bidirectional Switching Relay

Product List

Type	UL (UL 508) c UL us	CE, CB (IEC60947.5) IEC CE	CCC (GB14048.5)	Short circuit test/Uimp	SCPD	Remark
EVR10		● CN28431 CB0022493	●	1KA	660GH 16A	Pre-charge
EVR50	● E210800	● CN28433 CB0022433	●	1KA	660GH 63A	
EVR100	● E210800	● CN28429 CB0022449	●	5KA	660GH 200A	
EVR150	● E210800	● CN28429 CB0022449	●	5KA	660GH 200A	Protect contact welding
EVR250	● E210800	● CN32782 CB0030114	●	10KA / 8kV	660GH 400A	750V 200A 1000V 100A
EVR250-/B	● E210800					Normal Close Contactor 1200V 50A
EVR400	● E210800	● CN28430 CB0022492	●	5KA	660GH 500A	450V 400A 1000V 200A
EVR400-/B	● E210800					Normal Close Contactor
EVH400	● E210800			18KA / 8kV		400V 400A 1200V 150A
EVHB400				18kA / 8kV (Contact air gap: 8mm) IEC62933-1 IEC61851-1 IEC60950-1		1200V 150A Bi-directional switching
EVH500						1000V 500A 1500V 200A
EVHB500	● E210800	●	●	10KA	FWJ 500A	Bi-directional switching 750V 500A 1000V 300A 1500V 100A
EVHD500			●			1000V 500A
EVH600	● E210800		●	18kA / 8kV		750V 600A
EVHD1000			●			800V 800A
EVL250	● E210800					

Surrounding Air Temperature : 40 °C (UL standard)

① Main Contactor

Feature : Main contactor makes and breaks normal current. When occurring accidents or failure circuit, main contactor breaks accident current on high voltage line.

④ Emergency Stop

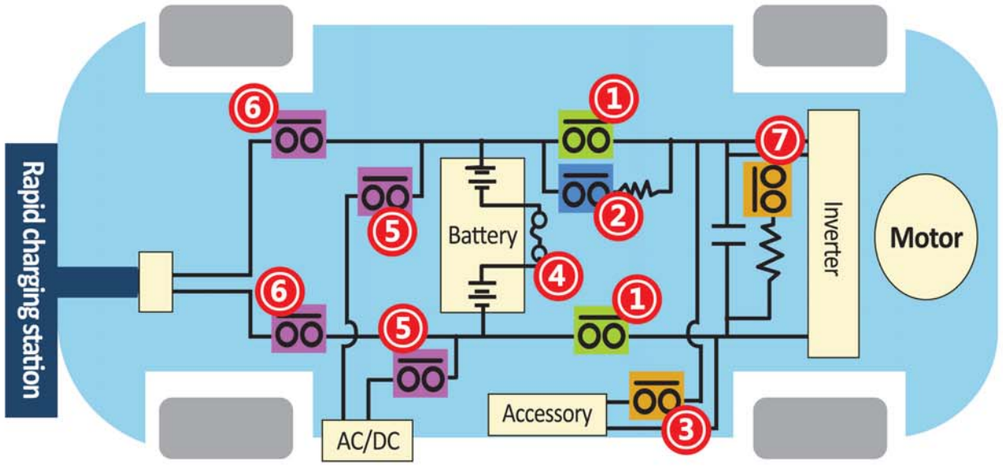
Feature : When manually open high voltage circuit or maintenance, use emergency stop.

② Pre-Charge Relay

Feature : Pre-resistor limits inrush current of DC link capacitor, Pre-charge relay makes inrush current of the resistor, EVR10, 30, 50.

⑦ Discharge Relay

Feature : This relay discharge the ultra capacitor energy Discharge relay pursuits more secure system.



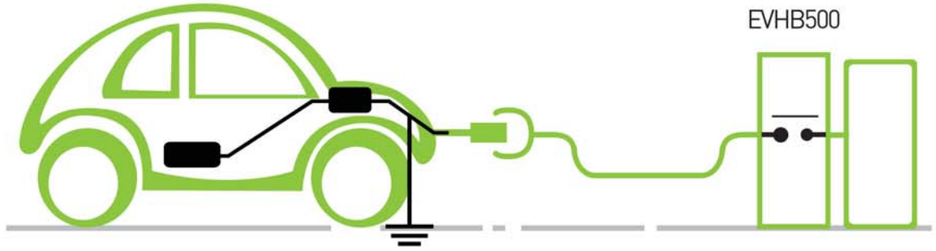
⑤ Rating of Slow Charging System : 5~10A
⑥ Rating of Rapid Charging System : 120~150A

This relay effects in disconnection after operating
When occuring an accident or failure,
this relay break the load current.
EVR10, 30, 50, 100, 150, 250, 400

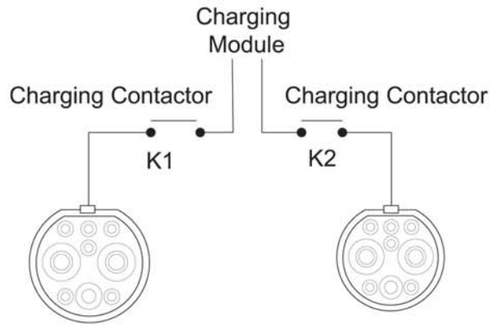
③ High Voltage Accessory Part

EVR10, 30, 50
- Heating System (10~15A)
- Air conditioner (15~20A)
- Fan

EV Relay for Electric Charging (DC750V 500A)

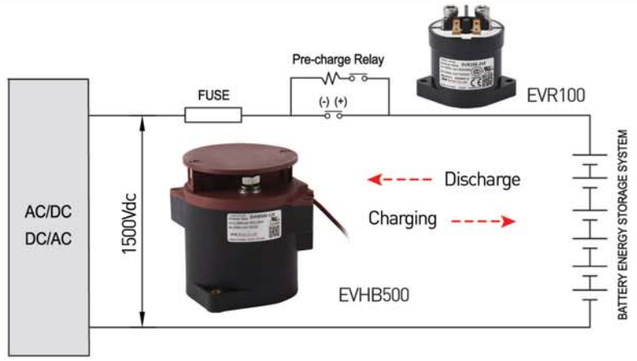


Rapid Charging Systems



Charging Contactor

Battery Energy Storage System



Main Relay

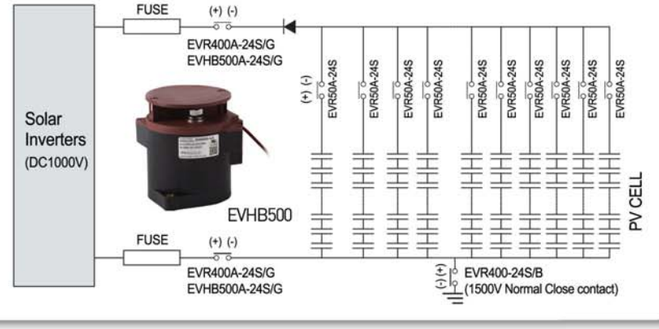
EVR100 : ESS for Home Application
EVR250 : ESS for 1000V 100A
EVR400 : 1200V 100A Systems
EVH400 : 1000V 200A Systems
EVHB400 :1200V 150A Systems
EVHB500 : 1500V 100A Systems
EVH500 : 1000V 300A Systems
1500V 200A Systems
EVHD500 : 1500V 300A Systems
EVHD1000: 800V 800A Systems

Pre-Charge Relay

EVR50 : Home application system
EVR100 : 80A pre-charge in 1000V 100A system
EVR400 : 100A pre charge in 1500V 200A system

Photovoltaic Application

EVR250-24S/B, EVR400-24S/B are operated when inspecting insulation between the earth and PV systems



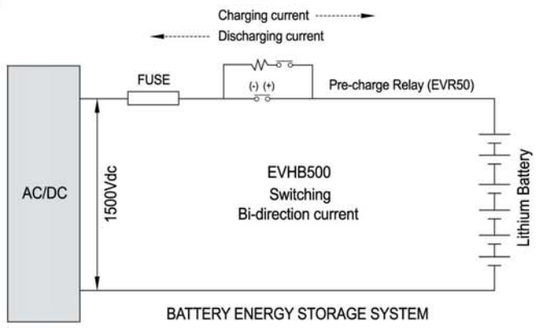
PV inverter

Recombine Box

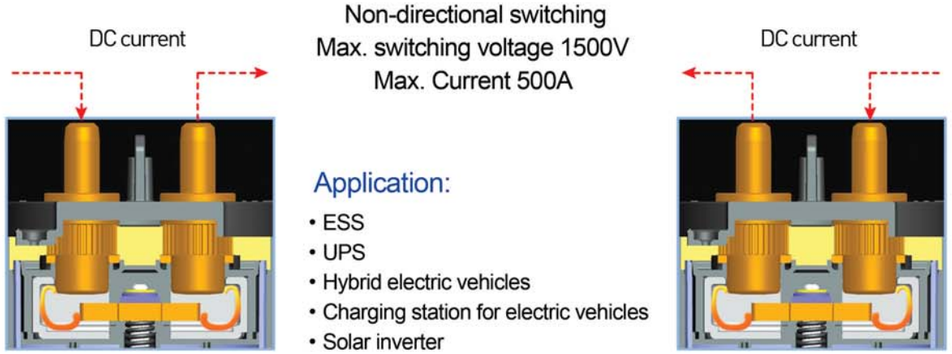
EVHB400 (+),(-)150A, 1200Vdc
EVHB500 (+),(-)500A, 1500Vdc

EVHB Series are the Bi-direction switching devices.
EVHB adopted the advanced and unique switching technology of YM Tech.

EVHB Series are used in the charging and discharging system of lithium battery such as battery energy storage systems and UPS.



EVHB Series can switch bi-directional current in dc systems, even if the direction of current change.



Non-directional switching
Max. switching voltage 1500V
Max. Current 500A

Application:

- ESS
- UPS
- Hybrid electric vehicles
- Charging station for electric vehicles
- Solar inverter

High Voltage DC Contactor

IEC60947-4-1
UL60947-4-1
GB14048.4.1
RoHS compliant
Hermetically sealed

Making & Breaking Performance

DC 400V	250A	6,000 Cycles
DC 600V	200A	10,000 Cycles
DC 900V	200A	1,000 Cycles

Continuous Current 500A

Short circuit protection : 10kA

Option

General Auxiliary contact : 30Vdc 2A
Sensible Auxiliary contact : 5mA ~ 100mA, 5 ~ 30Vdc

Applications

- Main Contactor to connect the battery system to the electric vehicle and golf cart.
- Charging station of electric vehicle
- Battery storage system
- PV inverter

EVH400 / EVHB400 New

High Voltage DC Contactor

IEC60947-4-1
UL60947-4-1
GB14048.4.1
RoHS compliant
Hermetically sealed

EVH400

Making & Breaking Performance

DC750V	400A	6,000 Cycles
DC1000V	400A	1,000 Cycles
DC1000V	200A	6,000 Cycles
DC1500V	150A	6,000 Cycles

Continuous Current 400A
Short circuit protection : 18kA

Option

General Auxiliary contact : 30Vdc 2A
Sensible Auxiliary contact : 5mA ~ 100mA, 5 ~ 30Vdc

Applications

- Main Contactor to connect the battery system to the electric vehicle and golf cart.
- Charging station of electric vehicle
- Battery storage system
- PV inverter

EVHB Series are the Bi-direction switching High Voltage DC Contactor

IEC60947-4-1
UL60947-4-1
GB14048.4.1
RoHS compliant
Hermetically sealed

EVHB400

Making & Breaking Performance

DC400V	400A	6,000 Cycles
DC1000V	200A	6,000 Cycles
DC1200V	150A	6,000 Cycles
DC1500V	100A	6,000 Cycles

Continuous Current : 500A
Short circuit protection : 18kA
Air gap of Contact : 8mm
Uimp : 8kV

Applications

- Main Contactor to connect the battery system to the electric vehicle and golf cart.
- Charging station of electric vehicle
- Battery storage system
- PV inverter

EVH500 / EVH600 New

High Voltage DC Contactor

IEC60947-4-1
UL60947-4-1
GB14048.4.1
RoHS compliant
Hermetically sealed

Making & Breaking Performance

DC750V	500A	6,000 Cycles
DC1000V	320A	6,000 Cycles
DC1000V	500A	1,000 Cycles
DC1500V	200A	6,000 Cycles

Making & Breaking Performance

DC750V	900A	1,000 Cycles

Continuous Current : 500A
Short circuit protection : 18kA
Air gap of Contact : 8mm
Uimp : 8kV

EVH500

Option

General Auxiliary contact : 30Vdc 2A
Sensible Auxiliary contact : 5mA ~ 100mA, 5 ~ 30Vdc

Applications

- Main Contactor to connect the battery system to the electric vehicle and golf cart.
- Charging station of electric vehicle
- Battery storage system
- PV inverter

High Voltage DC Contactor

IEC60947-4-1
UL60947-4-1
GB14048.4.1
RoHS compliant
Hermetically sealed

EVH600

Making & Breaking Performance

DC750V	400A	6,000 Cycles
DC1000V	400A	1,000 Cycles
DC1000V	200A	6,000 Cycles
DC1500V	150A	6,000 Cycles
DC500V	600A	6,000 Cycles
DC750V	650A	1,000 Cycles

Continuous Current 600A
Short circuit protection : 18kA

Option

General Auxiliary contact : 30Vdc 2A
Sensible Auxiliary contact : 5mA ~ 100mA, 5 ~ 30Vdc

Applications

- Main Contactor to connect the battery system to the electric vehicle and golf cart.
- Charging station of electric vehicle