



Front view



Side view

To extend the current output capacity of a CCU-IV Master Control Unit an Output Relay Unit can be added. The Output Relay Unit is fully solid state without moving parts or other sensitive components, resulting in an extremely high reliability.

The 24V version is equipped with its own High Voltage protection. The System High Voltage protection function is normally carried out by the Master Controller.

### Operation

The Output Relay Unit is controlled by the Master Control Unit and switches the load off from the power in case of a general alarm. When the general alarm is de-activated it will switch the load automatically on to the power again.

### Indicators

- **Yellow LED "OPERATIONAL"**  
This LED indicates that the control unit is connected correctly (polarity) and is ready for operation.
- **Red LED "OUTPUT RELAY OFF"**  
This LED is ON if the Output Relay is in the off position, the load is disconnected from the power.
- **Green LED "OUTPUT RELAY ON"**  
This LED is ON if the Output Relay is in the on position, the load is connected to the power.
- **Red LED "OVERLOAD"**  
If this LED is ON the output relay is overloaded. The red LED "OUTPUT RELAY OFF" is ON, the load is disconnected from the power.

**Switch on front**

Normally this switch is in the "AUTO" position and the unit will be controlled by the Master Control Unit. Moving and holding the switch to the high position, the green LED "OUTPUT RELAY ON" will be ON and the loads will be connected to the power. The switch will return to its position "AUTO" when released.

Moving and holding the switch to the low position, the red LED "OUTPUT RELAY OFF" will be ON and the loads will be disconnected from the power. The switch will return to its position "AUTO" when released.

**Overload or High Voltage (24V version)**

In case of an overload or a High Voltage (only 24V version), the internal electronic protected solid-state switch will switch off the load. The red LED "OVERLOAD" on the front does indicate this. For safety reasons, the load is not switched on again automatically in case of overload.

To restore power to the load:

- Trace and correct the problem which caused the overload or high voltage.

In case of overload

- Push the switch to low position "OUTPUT RELAY OFF".
- Release the switch.
- The OVERLOAD is now reset.

<b>Electrical Specifications</b>		
<b>Model / Type:</b>	<b>24V</b>	<b>48V</b>
Nominal system voltage	24 Vdc	48 Vdc
High voltage protection	30,5 V	N.A.
Nominal output current	60 A	40 A
Maximum output current	100 A (1 min.)	80 A (1 min.)
Maximum battery input voltage	35 Vdc	65 Vdc
Nominal input current	60 A	40 A
Typical operating current consumption	5 mA	5 mA