



A PV solar generator can provide adequate and economical solutions for Cathodic Protection (CP) systems using impressed current. All these systems consist out of a specified number of solar modules, a support structure, a battery bank, a battery charge controller and an Output Regulator.

In a PV solar powered CP system a charge controller optimises the charging and discharging of the battery. The Output Regulator is added to this controller and regulates the output voltage and output current to the protected object.

The system can be extended by adding Slave Units to increase the input capacity by Solar Modules and adding Output Regulators (in Slave mode) to increase the output capacity.

Output Regulator Slave Units are identical to Output Regulator Master Units with set point controls disabled (= max. position).

### Features

- Adjustable output voltage and output current
- System can be extracted by adding Output Regulators in Slave mode
- Reverse polarity protection on input
- Overload protection
- High efficiency

### Advantages

- Output Regulator can be used as voltage limiter

Electrical Specifications	
<b>Model / Type:</b>	<b>48V (52A)</b>
Minimum input voltage	15 Vdc
Maximum input voltage	62 Vdc
Maximum input current (fused)	63 A
Maximum output current	52 A
Adjustable output voltage range <sup>(1)</sup>	<0,1 – 48 Vdc
Adjustable output current range	0 – 52 A
Typical operating current consumption	100mW
Maximum output power	2500 W
Conversion efficiency (maximum)	97 %

<sup>(1)</sup> Not exceeding actual battery voltage

General specifications	
<b>Model / Type:</b>	<b>48V (52A)</b>
Operating temperature	-10 °C to +55 °C
Operating relative humidity	5% to 95% non condensing
Storage temperature	-30 °C to +70 °C
Construction	open frame
Mounting	Indoor / outdoor
Unit weight	± 8,5 kg
Dimensions (H x W x D)	37 x 16,5 x 35 cm

Options
Timer unit (on/off times <u>independently</u> fully adjustable between 1 second and 1 hour)
Alarm relays
Remote monitoring / 4-20mA outputs
Protective filtering for output.
Timer/Synchroniser for multiple units on same object. (p.m.)
Reference cell control / half cell potential control