



The intelligent meter unit measures the key performance parameters of a PV solar power system. Due to its flexibility it can be easily adapted for special project needs.

The meter unit can perform a number of operations on the signals. e.g. multi sub array currents are added to total array current. Battery current is calculated from load and array current. These results are showed on the display.

The various input signals are connected to input channels, so that they are suitable to be processed by the optional microcontroller based data logger. A maximum of 8 different signals can be processed.

Features

- Microprocessor controlled

Advantages

- Modular concept (CCU-IV range)

Electrical Specifications		
Model / Type:	12V / 24V	48V
Nominal system voltage	12 / 24 Vdc	48 Vdc
Accuracy	±2%	±2%
Maximum battery input	40 Vdc	65 Vdc
Maximum input for current	20 Vdc	20 Vdc
Maximum input for voltage	65 Vdc	65 Vdc
Typical operating current consumption	3 mA	3 mA
Inputs		
2x Array current	60 A / 100 mV shunt ⁽¹⁾	
1x System current	60 A / 100 mV shunt ⁽¹⁾	
1x Battery voltage	40 Vdc	60 Vdc
1x Output current	60 A / 100 mV shunt ⁽¹⁾	
1x Output voltage	40 Vdc	60 Vdc
Typical ranges (values) on display		
2x Array current	60 A	
1x Total array current	199 A	
1x System current	60 A	
1x Battery current	-199 A to +199 A	
1x Battery voltage	40 V	60 V
1x Output current	60 A	
1x Output voltage	40 V	60 V

⁽¹⁾ Typical shunt value, values depends on project needs

General specifications		
Model / Type:	12V / 24V	48V
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	
Unit weight	± 0,5 kg	
Dimensions (H x W x D)	21,6 x 8 x 14,7 cm	

Features & Options	
Data logger	An 8 analogue input data logger with a memory size of 32.000 (optional 250.000) readings is available as an option which can be connected to the meter unit
GSM modem	An optional GSM modem is available for remote downloading, saving of recordings, SMS alarm messages and remote display of all inputs/output values by sending a SMS request from a GSM.