

Power Meters

Power measurements

A power meter relays the measured amount of power to the Solar-Log™ for analysis. If you wish to consume the self-produced power from a PV plant, the meter serves as a consumption meter, displaying a comparison of the power produced and consumed. The meter can be configured to operate with the Solar-Log™ in three different modes:

1. Measuring power consumption for the optimal utilization of self-produced power.
2. Measuring the total amount of power that has been fed into the grid.
3. Measuring the power production from inverters that are not directly supported by Solar-Log™.



Technical data	Inepro calibrated, 1-phase, S_0 and RS485	Inepro calibrated, 3-phase, S_0 and RS485	Iskra uncalibrated, 1-phase, S_0	Iskra uncalibrated, 3-phase, S_0
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	RS485 Interface / Cable length up to 500m		6-pin S_0 -In / Out connector / max. cable length 10 m	
Connections	RS485 Interface / Cable length up to 500m		6-pin S_0 -In / Out connector / max. cable length 10 m	
Direct connection	100 A	100 A	80 A	65 A
Voltage U_n	230 V / 400 V	3 x 230 V / 400 V	230 V -20% - +15%	3 x 230 V / 400 V -20% - +15%
Measuring range	< 1 mA - 100 A	< 1 mA - 100 A	4 mA - 80 A	4 mA - 65 A
Self-consumption	< 2 W	< 2 W per phase	< 8 W	< 0,85 W
Start-up current	< 1 mA	< 1 mA	4 mA	4 mA
Power frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Dimensions (w x h x d) in mm	76 x 130 x 65	126 x 130 x 65	36.5 x 100.5 x 65	53.6 x 84.3 x 65.1
Wire diameter	2.5 - 16 mm ²	2.5 - 16 mm ²	2.5 - 10 mm ²	2.5 - 16 mm ²
Protection level	IP51	IP51	IP20	IP20
LCD display	7-digit LCD (5.2)	7-digit LCD (5.2)	7-digit LCD	6+1 digit, 100 Wh resolution
S_0 pulse	1600 p / kWh	400 p / kWh	1000 p / kWh	500 p / kWh
Misc.	Class 1 according to EN50470-1	-	2 counters: 1x total, 1x resetable	no LCD display
	Class 1 according to EN50470-3 MID, RS485* and S_0		Class 1 EN 62053-21 and EN 62052-11	
Warranty	2 years	2 years	1 year	1 year

* Only one meter possible per RS485 Bus.

Article number

Iskra uncalibrated 1-phase, S_0	255346
Iskra uncalibrated 3-phase, S_0	255347
Inepro calibrated 1-phase, S_0 and RS485	255420
Inepro calibrated 3-phase, S_0 and RS485	255421

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