

About the Bliq 1 phase kWh meter

This single-phase kWh meter is used to measure data from single phase devices such as PV inverters, HVAC such as air conditioning and heat pumps, EV chargers and other equipment via Bliq EMS3.

This meter communicates via Modbus RTU and can be connected to Bliq EMS3 or Bliq RF dongle via RS485. All measurement data is real-time visible in Bliq Qontrol & Bliq app. If a PV inverter is connected, the data will be direct input for Bliq Powerflow smart charging algorithm.

Advantages

- Simple RS485 connection to Bliq EMS3 or Bliq RF dongle
- Easy to add and configure in Bliq Qontrol (installer portal)
- Direct inline meter (no CT's)
- Two standard DIN rail positions
- Easy to change Modbus address (default: 001)



Modbus meter

Grid type	Single phase two wire
Voltage	230V
Nominal current	0.25 - 0.5(63)A
Maximum current	63A
Frequency	50/60Hz
Measurements	A, V, W, VA, VAr, kWh
Access method	Direct (no CT's)
Accuracy class	Class 1 ($\pm 1.0\%$)
Communication	'Modbus RTU via RS485
Address	Modbus table number can be set (1 to 247), the default is 001

Performance

Voltage measurement error	$\leq \pm 0.5\%$
Current measurement error	$\leq \pm 0.5\%$
Active power error	$\leq \pm 1.0\%$
Frequency error	± 0.02 Hz
Power consumption	< 2 W

Ambient conditions

Operating temperature	Specified range: $- 25\text{ }^{\circ}\text{C} \sim + 55\text{ }^{\circ}\text{C}$ Absolute range: $- 30\text{ }^{\circ}\text{C} \sim + 80\text{ }^{\circ}\text{C}$
Relative humidity	10-90%, non-condensing
Protection class	IP20
Compliance	IEC 62053-21

General data

Nett dimensions (L*W*H)	100mm * 36mm * 69mm
Nett weight (gram)	147 gram
Carton dimensions (L*W*H)	127mm * 87mm * 48mm
Carton weight (gram)	174 gram
DIN-rail width	2 standard positions
Certifications	CE, RoHs
Status display	LCD (with backlight)

Features

Certified for	Bliq Qontrol, Bliq app
Compatibility	Bliq energymanager 3.0
Warranty	2 years
EAN	8721516479006

Support needed?

We're always here to help.
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