

ATESS Smart Meter+CT

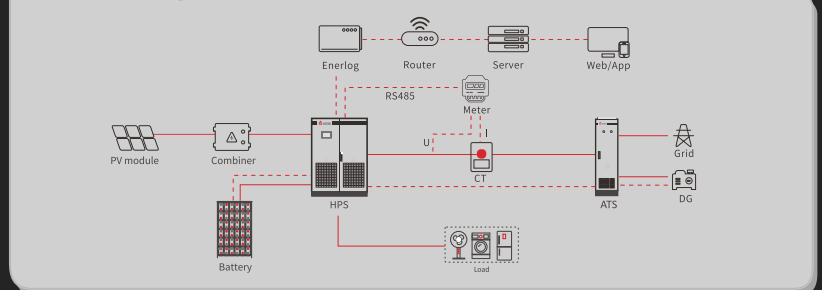


LEADING - EDGE TECHNOLOGY

Overview

- ▶ High accuracy measurement
- ▶ Quick plug-and-play installation
- ▶ Energy manager with HPS
- ▶ Three-phase meter

Block Diagram



Datasheet

ATESS Smart Meter

Measurement of kWh

Grid system	3 phase 3 wires, 3 phase 4 wires
Active kWh (positive and negative)	Yes
Reactive kWh (positive and negative)	Yes
A, B, C phase positive active kWh	Yes

Measurement of voltage

Reference voltage	3×100V / 3×380V / 3×57.7 / 100V / 3×220/380V
Consumption	<10VA(Single phase)
Impedance	>2MΩ
Accuracy class	Error±0.2%

Measurement of current

Input current	3×1(6)A / 3×1(6)A(Outlay transformer) / 3×10(80)A / 3×10(100)A(Outlay transformer)
Consumption	<1VA(Single phase rated current)
Accuracy class	Error±0.2%

Measurement of others

Power	Active, reactive, apparent power, error±0.5%
Frequency	45~65Hz, Error±0.2%
Temperature	-40°C~99°C

Communication

Bus Type	Modbus RTU
Modbus Address	1-247
Baud rate	1200/2400/4800/9600/19200
Parity	EVEN/NONE
Stop bits	1

General Specification

Operation temperature	-25°C~+55°C
Relative humidity	≤95%(No condensation)
LCD Display	8 bits section LCD display, background light
Key programming	4 keys to communication and set parameters

Specification

	CT200	CT500	CT1000
Rated Voltage	AC0.66KV	AC0.66KV	AC0.66KV
Rated Frequency	50-60Hz	50-60Hz	50-60Hz
Ambient temperature	-30~70°C	-30~70°C	-30~70°C
Altitude	≤3000m	≤3000m	≤3000m
Power frequency withstand voltage	3000V/1min 50Hz	3000V/1min 50Hz	3000V/1min 50Hz
Perforation size(mm)	22*32	42*62	42*82
Current rate	200/1A	500/1A	1000/5A
Rated load(VA)	1.5	2.5	10
Accuracy level	1	0.5	0.5
Dimension(W/H/D)	90/114/40mm	114/140/36mm	122/161/40mm