

# СКВТ-ЕРМ30

## DC Energy Meter



**Two Channel  
DC Measuring**



**Compact Size  
4 Module**

**Class0.5**

**High Accuracy  
Class 0.5 for kWh**



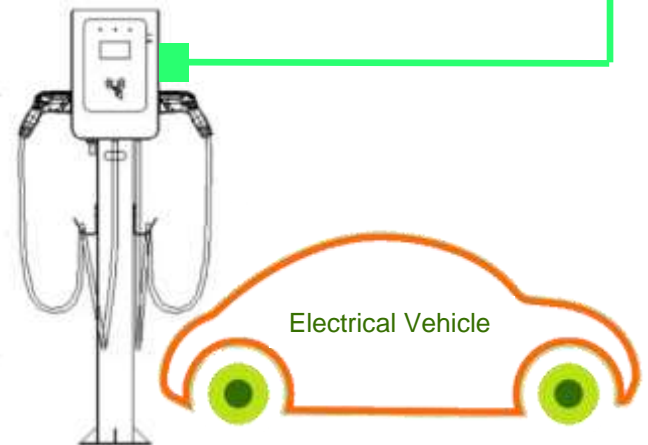
**Multi-tariff  
4 Tariff - 14 time Period**



**Multiple Communication**

### Feature

- Real-time measurement: V, I, P, IMP & EXP kWh
- 2 channel DC Measurement, Shunt current free setting
- Voltage Input: 0-1000V; Current input: 75mV by shunt (Max. 800A)
- Support 4 tariff, 14 time periods
- Historical record for latest 31 days & 12 months kWh
- 2 pulse output, 1 pulse for energy, 1 pulse per second (PPS)
- Alarm for Over - Voltage & Over - Current
- Standard Modbus-RTU, DL/T 645-2007 and DL/T 698.45-201X (Optional)
- Class 0.5 accuracy for kWh, Max. 3 decimal point for display ( 0.001 kWh)
- 35mm DIN Rail Installation



### Technical Specification

<b>Rated Voltage</b>	DC 0~1000V		
<b>Rated Current</b>	100A	<b>Pulse Output Constant</b>	200 imp/kWh
	200A		100 imp/kWh
	300A, 400A, 500A		50 imp/kWh
	600A, 700A, 800A		25 imp/kWh
<b>Starting Current</b>	0.002 Ib		
<b>Auxiliary Power Supply</b>	P1: 9~60V DC	Power Consumption < 2W	
	P2: 80~264V AC		
<b>Communication</b>	<b>RS485 Port:</b> EPM30-N: 2 RS485 Port EPM30-A: 1 RS485 Port		
	<b>Protocol (Settable):</b> Modbus-RTU DL/T 645-2007 DL/T 698.45-201X		
	<b>Address:</b> 1~247		
	<b>Baud Rate:</b> 1200, 2400, 4800, 9600(default) bps		

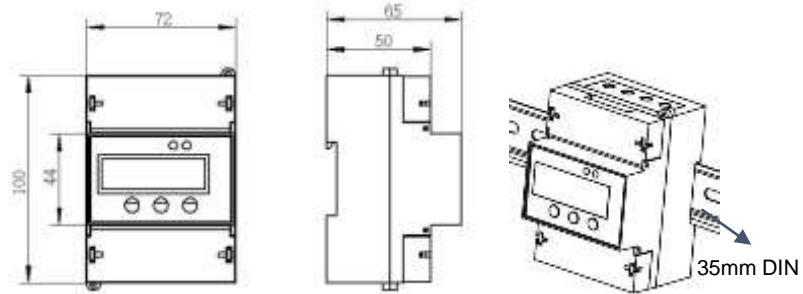
<b>Dimension (L*W*H)</b>	100 * 72 * 65mm (4 module)	
<b>Shunt</b>	75mV, Accuracy: Class 0.2	
<b>Impulse Voltage</b>	6000V	
<b>Power Frequency Withstand Voltage</b>	4400VAC	
<b>Environment</b>	Operation Temp.: -25°C~+55°C	
	Storage Temp: -40°C~+75°C	
	Humidity: 5%~95% no-condensing	
<b>IP index</b>	IP20	
<b>EMC Standard</b>	Electrostatic discharge immunity test	IEC61000-4-2, Level 4
	Electrostatic discharge immunity test	IEC61000-4-2, Level 4
	RF electromagnetic field immunity test	IEC61000-4-3, Level 3
	Electrical fast transient immunity test	IEC61000-4-4, Level 4
	Surge immunity test	IEC61000-4-5, Level 4
	Conducted emission	EN55022, Class B
Radiated emission	EN55022, Class B	

# CKBT-EPM30 Energy Meter

## Accuracy

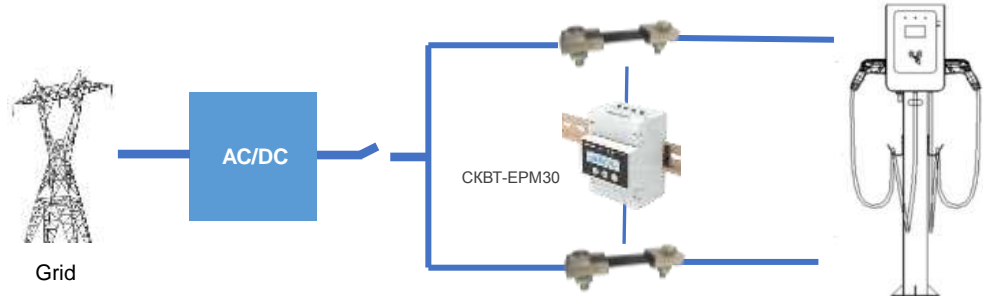
Parameter	Measurement Range	Accuracy
Voltage	0 ~ 1000V	0.2%
Current	1% ~120% of Rated	0.2%
Power	0.1 ~ 960kW	0.5%
Energy	0 ~ 4294967.295kWh or 0 ~ 4294967.29kWh	Class 0.5

## Dimension

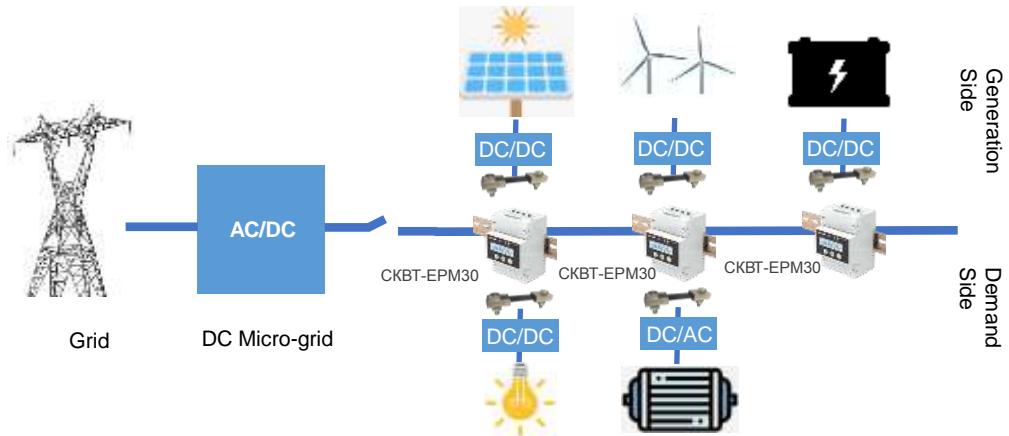


## Typical Application

### ① EV Charger (1 / 2 piles)



### ② New Energy (IMP & EXP Energy)



## Order Information

CKBT-EPM30 - ① - ② - ③

① Model		② Auxiliary Power Supply		③ Shunt (Optional)			
N	Dual-channel (Default)	P1	9~60V DC	0	No Shunt		
A	Single-channel	P2	80~264V AC	1	100A/75mV	5	500A/75mV
				2	200A/75mV	6	600A/75mV
				3	300A/75mV	7	700A/75mV
				4	400A/75mV	8	800A/75mV

Example:

**CKBT-EPM30-N-P1-0**

2 Channel DC energy meter, 9~60V DC auxiliary power supply.  
Shunts are purchased by customer.

**CKBT-EPM30-N-P1-1**

2 Channel DC energy meter, 9~60V DC auxiliary power supply.  
Configure with 2pcs 100A/75mV shunts