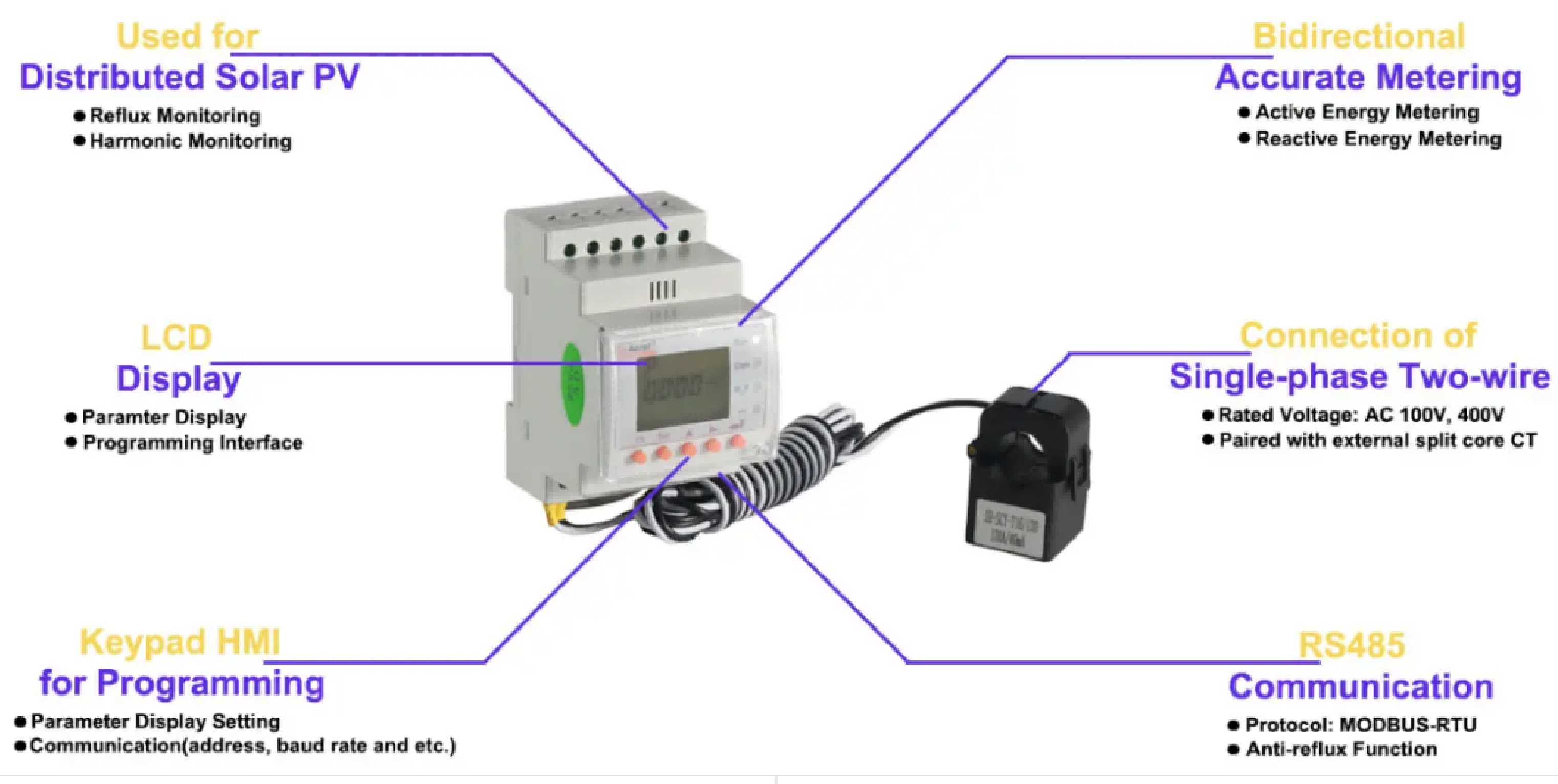
ACR10R-DxxT Bidirectional Single-phase Reflux Monitoring Energy Meter

- **Measurement:** 1-phase Active Power, Reactive Power, Current, Voltage and etc
- **Current Rating:** up to 300A (paired with external CTs)
- **Communication:** RS485 (MODBUS-RTU)
- **Application:** Using in distributed Solar PV and Anti-reflux Inverter
- **Display:** LCD Dispaly
- **Dimension:** 54*74*85mm (L*W*H)
- **Installation:** 35mm DIN Rail
- **Power Supply:** 85~265V AC or 100~350V DC
- **Standard&Certificate:** CE

Features



Used for distributed Solar PV

- Reflux Monitoring
- Harmonic Monitoring

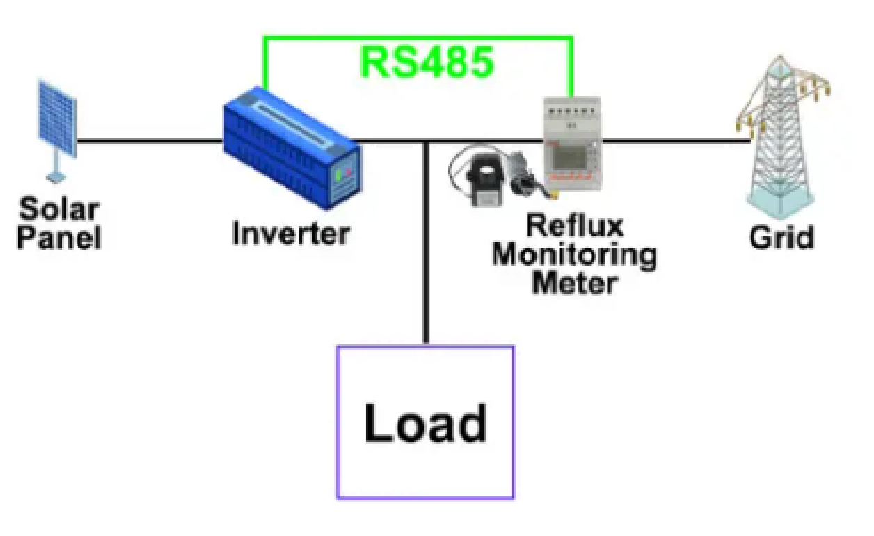
Distributed Solar PV

Bidirectional Metering

- Active Energy Metering
- Reactive Energy Metering

RS485 Communication

- MODBUS-RTU Protocol
- Communicate with Inverter to realize anti-reflux Function



Single-phase Two-Wire Connection

- Paired with external split core CT
- Rated Voltage: AC 100V, 400V

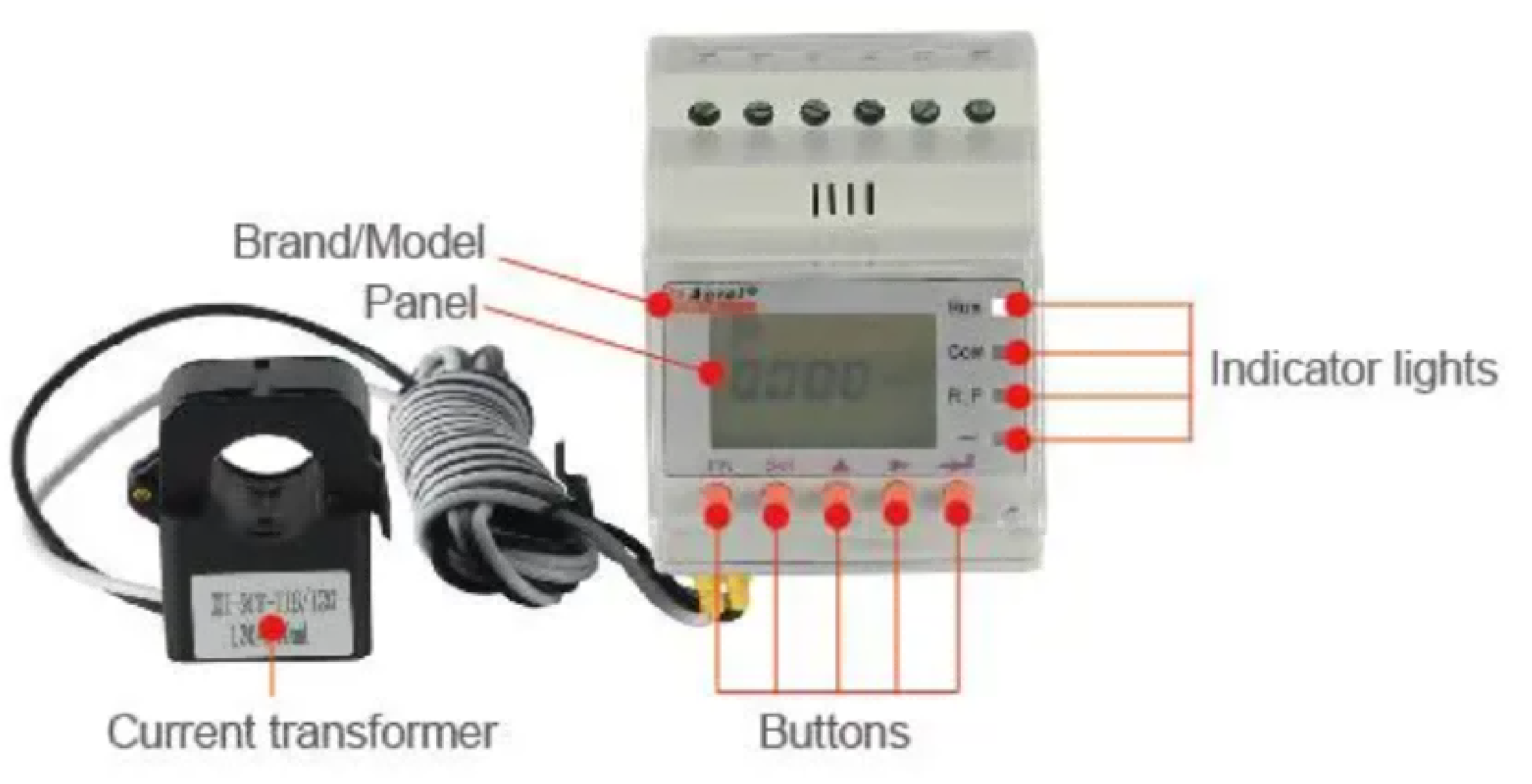
LCD Display

- Parameter Display
- Programming Interface

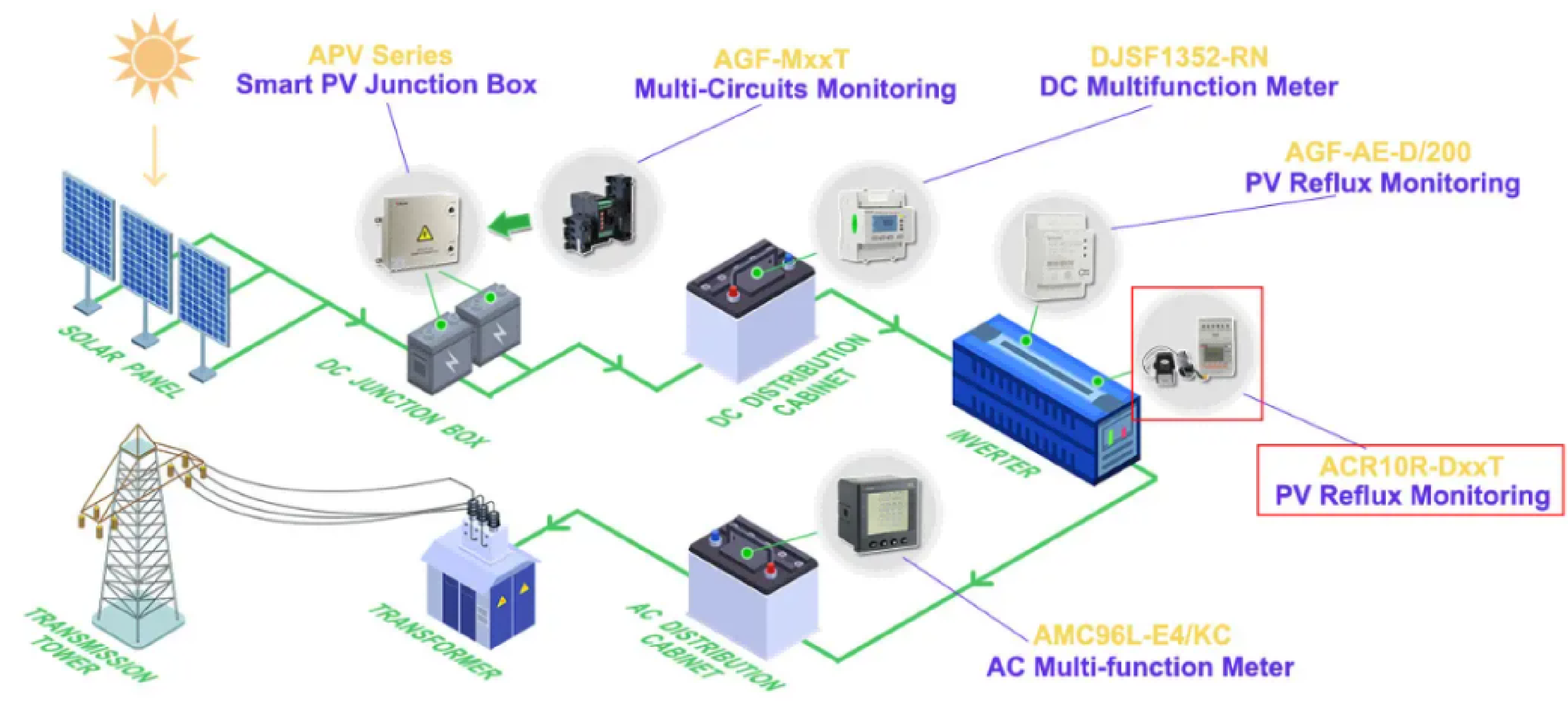
Keypads HMI for Programming

- Parameter Display Setting
- Communication(address, baud rate and etc.)

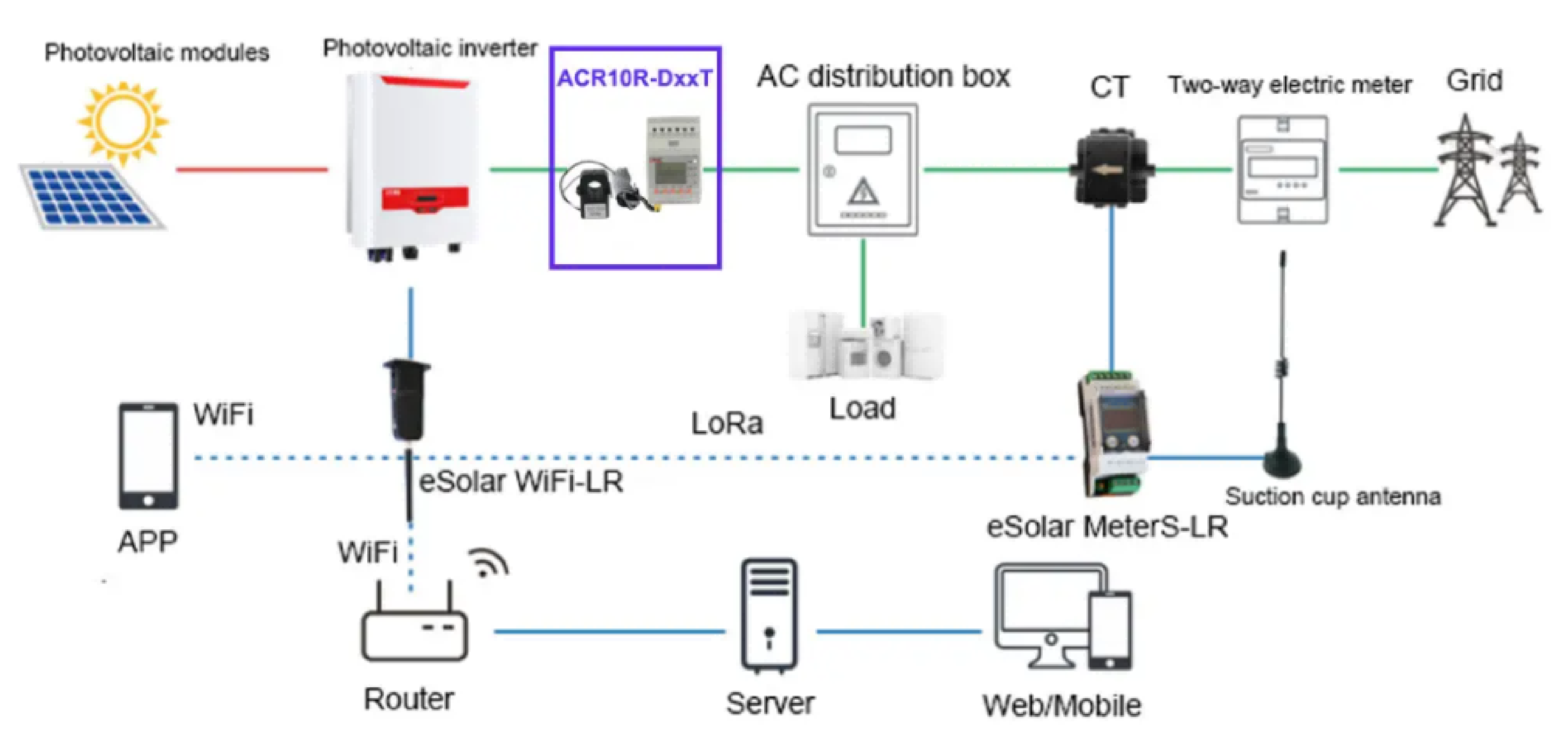
Display Sample



Practical Application



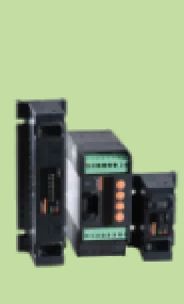
Solor PV Power Power Distribution Monitoring Solution



ACR10R-DxxT Practical Utility In Distributed Solar PV

Technical parameters		Indicators
Input	Grid	Single-phase
	Frequency	45～65Hz
	Voltage	Rated voltage: AC 100V, 400V
		Overload: 1.2 times the rated voltage(continuous); 2 times the rated voltage lasting for 1 second
		Power consumption: less then 0.2VA
	Current	Rated current: 10A，20A，40A，80A，120A，200A etc. (for details see product specifications)
		Overload: 1.2 times the rated current(continuous);10 times the rated current lasting for 1 second
		Power consumption: less then 0.2VA
Output	Communication	RS485 interface, Modbus-RTU
	Display	LCD
Measurement precision		Voltage: 0.2 level, current, power Active energy: 0.5 level,0.01Hz frequency, Reactive energy: 1 level
Power supply		AC85～265V or DC100～350V; power consumption ≤10VA
Safety	Power frequency withstand voltage	AC2kV 1 min between power supply // current input//voltage input and communication AC2kV 1 min between each pair of combinations among power supply, urrent input and voltage input.
	Insulating resistor	Input,output terminal to housing >100MΩ
Environment		Working temperature: -10℃～+55℃;storage temperature: -20℃～+70℃ Relative humidity:5%～95%，non-condensing; altitude:≤2500m

Note: Price below Only for Reference, Contact us for your **Best Quotation** !!!

Shape & Cut-out	Type	Function	FOB Shanghai (USB)	Option	Module Price(USD)	Option Grop
	AGF-M4T	4 channels DC0-20A photovoltaic confluence detection, 3.5KV Hall isolation, RS485/Modbus-RTU protocol, accuracy 0.5, 0-1000V voltage measurement, 3 groups of external status input (optical coupling or dry contact mode), auxiliary power supply optional DC1000V, DC1500V	148	1.L (liquid crystal display) 2. P2 (auxiliary power supply DC1000V) 3. P3 (auxiliary power supply DC1500V)	L-29 P2-29 P3-29	at will
	AGF-M8T	8 channels DC0-20A photovoltaic confluence detection, 3.5KV Hall isolation, RS485/Modbus · RTU protocol, accuracy 0.5, 0-1000V voltage measurement, 3 groups of external status input (optical coupling or dry contact mode), auxiliary power supply optional DC1000V, DC1500V	162			
	AGF-M12T	12 channels DC0-20A photovoltaic confluence detection, 3.5KV Hall isolation, RS485/Modbus-RTU protocol, accuracy 0.5, 0-1000V voltage measurement, 3 groups of external status input (optical coupling or dry contact mode), auxiliary power supply optional DC1000V, DC1500V	177			
	AGF-M16T	16 channels DC0-20A photovoltaic confluence detection, 3.5KV Hall isolation, RS485/Modbus-RTU protocol, accuracy 0.5, 0-1000V voltage measurement, 3 groups of external status input (optical coupling or dry contact mode), auxiliary power supply optional DC1000V, DC1500V	192			
	AGF-M20T	20 channels DC0-20A photovoltaic confluence detection, 3.5KV Hall isolation, RS485/Modbus-RTU protocol, accuracy 0.5, 0-1000V voltage measurement, 3 groups of external status input (optical coupling or dry contact mode), auxiliary power supply optional DC1000V, DC1500V	992			
	AGF-M24T	24 channels DC0-20A photovoltaic confluence detection, 3.5KV Hall isolation, RS485/Modbus-RTU protocol, accuracy 0.5, 0-1000V voltage measurement, 3 groups of external status input (optical coupling or dry contact mode), auxiliary power supply optional DC 1000V, DC1500V	296			
	AGF-AE-D/200	Voltage, current, power measurement,RatedVoltage: AC120 V Rated RMS current:AC200A	133			
	ACR10R-DxxTE	LCD display Single phase multifunction power meter	75	1. D10:10A,20A, 40A,80A 2. D16:max 120A 3. D24:max 200A 4. D36:max 300A	D10: 6/piece	
	ACR1 ORH-DxxTE	LCD display Single phase multifunction power meter with THDi, THDu and 2-31st harmonic	100		D16: 12/piece	
	ACR10R-DxxRE	LCD display Single phase multifunction power meter	75	1. D110: max 1000A 2. D120: max 2000A 3. D140: max 6300A 4. D190: max 20000A	D110: 145/piece	
	ACR10RH-DxxRE	LCD display Single phase multifunction power meter with THDi, THDu and 2-31 st harmonic	100		D120: 175/piece	
	ACR10R-DxxTE4 (3)	LCD display Three phase multifunction power meter	190		D24: 22/piece	
	ACR10RH-DxxTE4 (3)	LCD display Three phase multifunction power meter with THDi, THDu and 2-31 st harmonic	220		D36: 37/piece	
	ACR10R-DxxRE4 (3)	LCD display Three phase multifunction power meter	190	1. D110: max 1000A 2. D120: max 2000A 3. D140: max 6300A 4. D190: max 20000A	DUO: 205/piece	
	ACR10RH-DxxRE4 (3)	LCD display Three phase multifunction power meter with THDi, THDu and 2-31 st harmonic	220		D190: 265/piece	
	DJSF1352-RN	DC voltage, current, power measurement, forward and reverse energy metering, multi-rate energy statistics, SOE event record; 8-digit LCD display; infrared communication; voltage input maximum 1000V, current external shunt connection (75mV) or Hall element Access (0-5V); power accuracy level 1	148	1.2DI/2D0(K)	6	
				2.The second DC energy metering	29	