

Single Phase Prepaid Electric kWh Meter





General

ADL100 single phase electric meter is designed for single phase active energy measurement on low voltage system, in the same time it can measure the electrical parameters like voltage, current, power and so on. There is also RS485 can be chosen. This power meter has advantages of smaller volume, high precision, good EMC, easily installing etc, All meters meet the related technical requirements of electronic power meter in the IEC62053-21, IEC62053-22 standards.





Model: ADL100-EY Size: 72*70*88mm Voltage: AC220V Current: 10(60)A Direct connect internal relay Accuracy: class 1.0 Communication: RS485 Modbus-RTU Remote recharge





Model: ADL100-EYRF Size: 72*70*88mm Voltage: AC220V Current: 10(60)A Direct connect Out relay Accuracy: class 1.0 Communication: RS485 Modbus-RTU RF card

- Rated Current: 10(60)A
- Rated Voltage: AC 220V
- Prepaid mode: Local & Online Topping Up
- 4 Tariff Rates (Spike, Peak, Valley and Flat kWh Unit Price)
- Auto & Remote Switch Control
- RS485 (MODBUS-RTU) Communication
- 8 digits LCD display; kWh Class 1
- Historical records
- DIN 35 mm

Feature



Specification

Specification		ADL100-EY	ADL100-EYZ	ADL100-EYRF
Voltage	Reference voltage	AC220V		
	Consumption	< 4VA		
	Accuracy	Class 1.0		
Current	Reference current	10(60)A		
	Accuracy class	Class 1.0		
	Consumption		< 4VA	
Active pulse		Pulse width: 80ms±20ms Pulse constant: 1600imp/kWh		
Display		LCD		
Frequency		50Hz		
Option Function	Communication	RS485, Modbus-RTU compatible protocol		
	Multi tariff energies		4 tariff rates, 14 time interval by day	
Red	narge method	Remote recharge	RF card or Remote recharge	RF card
Operat	ion Temperature	-25 °C~+55 °C		
Storag	ge Temperature	-40 °C ~+70 °C		
Altitude		≤ 2000m		
Relative humidity		≤95%RH, no condensation, without corrosive gas		

Dimension



Wiring

Wiring sample of current and voltage







RS485



Active power





For single phase meter



Parameter

	Reference frequency	50Hz	
	Consumption	<4VA(Each phase)	
	Input current	10(60)A	
Current	Starting current	0.004 lb	
	Consumption	<4VA	
Measurement performance	Accuracy of measuring	Class 1	
Clock accu	≤0.5s/d		
Active pulse	Pulse width	80ms±20ms	
Active pulse	Pulse constant	1600imp/kWh	
	Interface	RS485	
Communication	Connection mode	Shielded twisted pair conductors	
	Protocol	MODBUS-RTU	
Dimensions(Length ×	72mm×88mm×70mm		
Tomporature range	Work temperature	-25°C~55°C	
Temperature range	Storage Temperature	-40°C~70°C	
Relative hu	≤95%(No condensation)		
Altitud	<2000m		

Typical Connection



