

GY500 Series Power Meter

Technical Parameters

Measurement Accuracy

- Voltage: 0.5 Class
- Current: 0.5 Class
- Active Power(Watt): 1.0 Class
- Reactive Power(var): 1.0 Class
- Power Factor: 1.0 Class
- Frequency: ±0.2Hz
- Active Energy(kwh): 1.0 Class
- Reactive Energy(kvarh): 2.0 Class

Auxiliary Power Supply

- Working Range: AC220V or AC85V~265V/DC100V-300V
- Power Consumption: <4VA

Environment

- Working Temperature: -10℃ +55℃
- Storage Temperature: -25℃ +70℃
- Relative Humidity: ≤93%, place without corrosive gas
- Altitude: ≤2500m

Safety

- Insulation Resistance: >100MΩ
- AC Withstand Voltage: AC 2KV

Signal Input

- Wiring Mode: 3 Phase 4 Wires/3 Phase 3 Wires
- Related Current: AC1A/AC5A
- Related Voltage: AC57.7V, AC100V, AC220V, AC380V
- Overload Capability
Voltage: 1.2 times(continuous), 2 times/1 second(instantaneous)
Current: 1.2 times(continuous), 10 times/5 seconds(instantaneous)
- Power Consumption
Voltage: <1VA/Phase Current: <0.4VA/Phase
- Impedance
Voltage: <400kΩ Current: <20mΩ
- Frequency: 45-65Hz

Optional Extended Function

- Communication Port:1 Loop Rs485, Modbus-RTU Protocol
Baud Rate: 1200~38400bps, the factory default is 9600bps
- Switching Input: Passive dry contact
- Switching Output Capacity: AC250V/5A, DC30V/5A

EMC Performance

- Electrostatic Discharge: 4 Class
- Electrical Fast Transient/Burst: 4 Class
- Surge: 4 Class

Model Meaning

GY 500 - □ □ □ - □ □ □

- Analog Output Symbol**
D, Omitted-Means without Analog Output, nD-n means 1channel, 2channels analog output
- Switching Output Symbol**
O, Omitted-Means without Switching Output, nO-n means 1 loop, 2 loops Switching output
- Switching Input Symbol**
I, Omitted-Means without Switching Output, nI-n means 1 loop, 2 loops Switching input
- Display**
1 means Single Phase LED screen,4 means Three Phase LED screen
Y means Single Phase LCD screen,4Y means Three Phase LCD screen
- Function Code**
E-All Basic Electrical Parameter Measurement; EF-All Basic Electrical Parameter Measurement +Multi-Fate Measurement; EH-All Basic Electrical Parameter Measurement+Harmonic Measurement; EFH-All Basic Electrical Parameter Measurement+Multi-Fate Measurement +Harmonic Measurement
A-Current; V-Voltage; AV-Combined with Current&Voltage&Frequency; AVP-Combiend With Current&Voltage&Power(watt); H-Power Factor; P-Active Watt

Outline Size

Code	Corresponded Model of Analog Meter	Panel Size(mm)	Hole Size(mm)
8	Mini Square	48×48	45×45
5	5	96×48	92×45
6	61 square	72×72	67×67
7	6 square	80×80	76×76
3	9 square	96×96	91×91

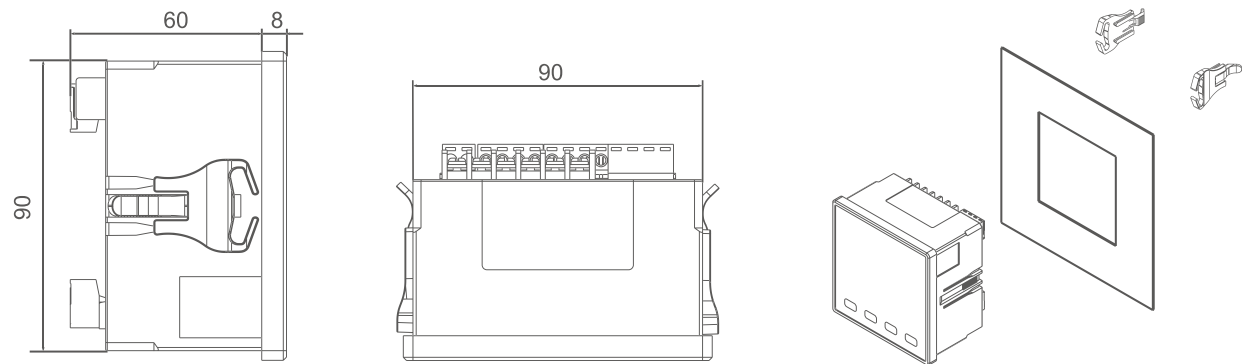
Series No.

Firm Code

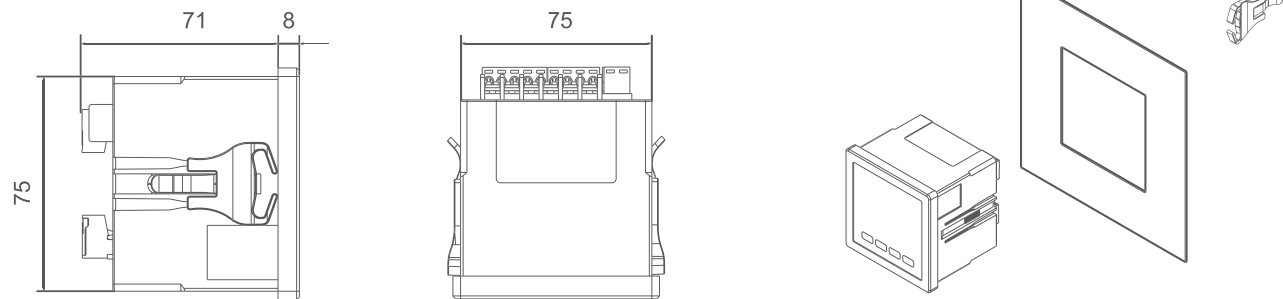
GY500 Series Power Meter

Outline and opening size (mm)

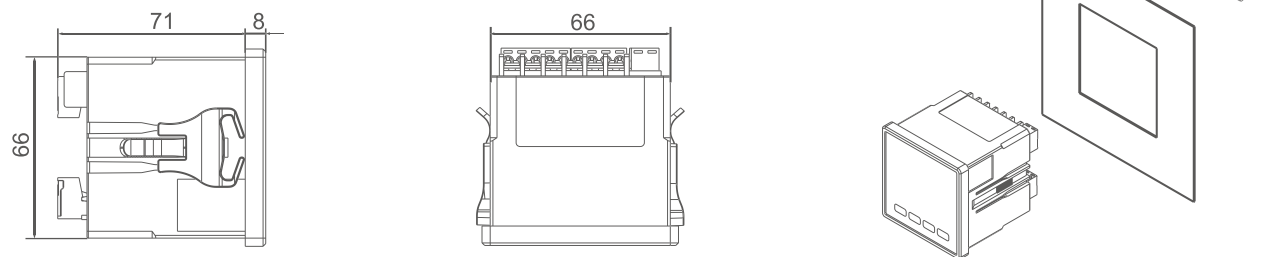
Frame size(mm): 96×96
Opening size(mm): 91×91
Cabinet Depth(mm): 60



Frame size(mm): 80×80
Opening size(mm): 76×76
Cabinet Depth(mm): 71



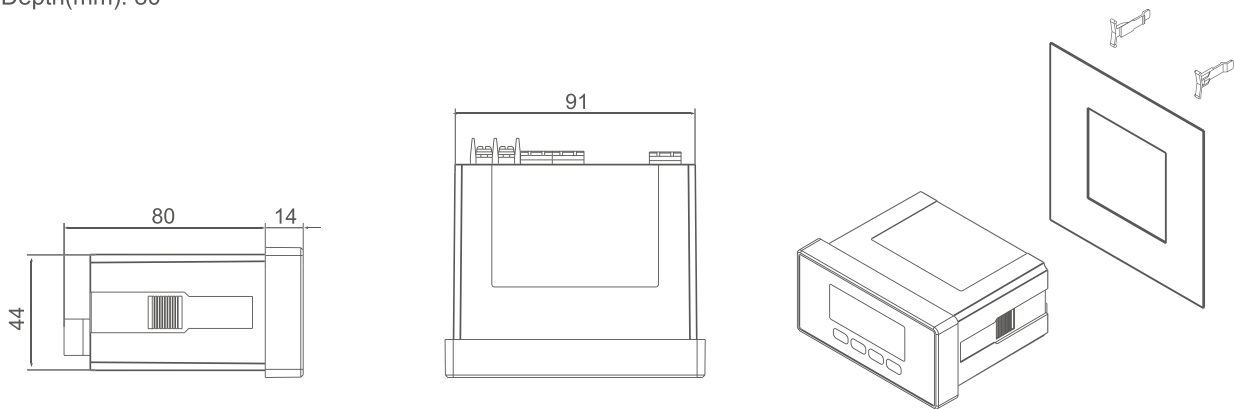
Frame size(mm): 72×72
Opening size(mm): 67×67
Cabinet Depth(mm): 71



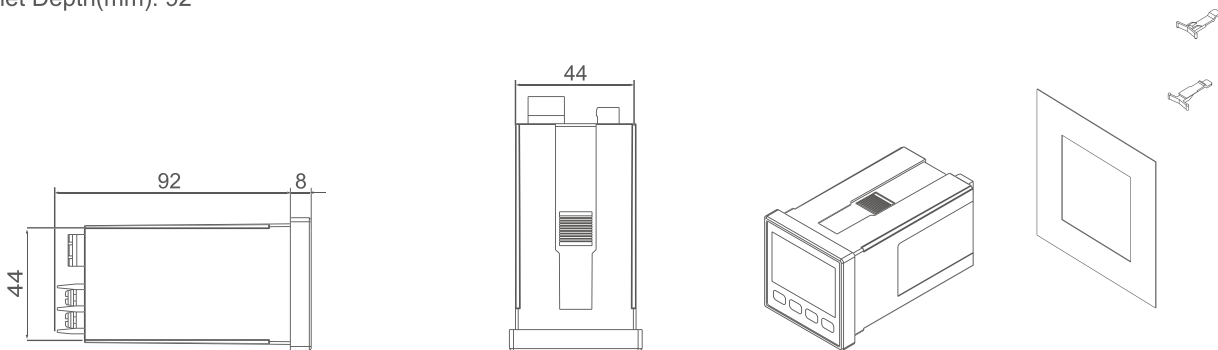
GY500 Series Power Meter

Outline and opening size (mm)

Frame size(mm): 96×48
Opening size(mm): 92×45
Cabinet Depth(mm): 80



Frame size(mm): 48×48
Opening size(mm): 45×45
Cabinet Depth(mm): 92



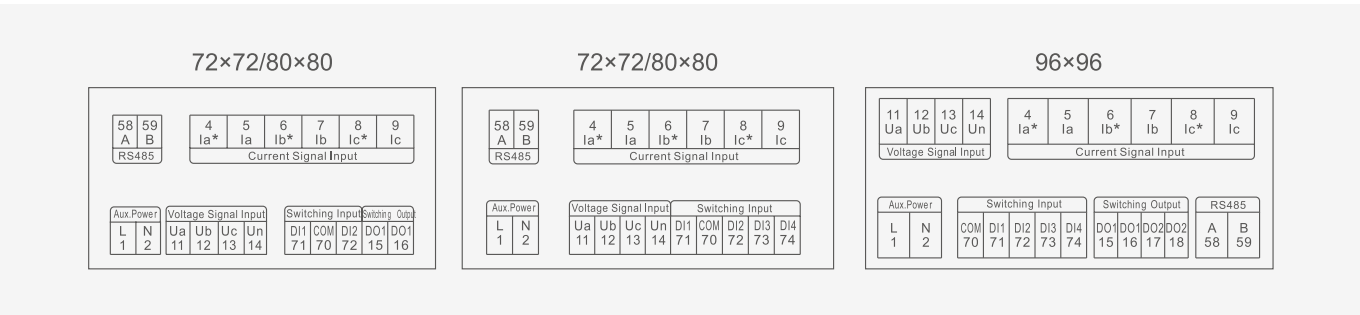
GY500 Series Three Power Meter



Function Module

Function Model NO.	Standard Measurement Function	Customized Extended Function						Display		Panel Size(mm)
	Three Phase: A,V,HZ,W,Var,VA, CosΦ,Kwh,Kvarh	2-31st Harmonic	Multi- Rate	Switching Input	Switching Output	Analog Output	RS485 Communication	LED	LCD	
3EFH4Y	√	√	√	4	2	3	√	-	√	96*96
7EFH4Y	√	√	√	2	2	3	√	-	√	80*80
6EFH4Y	√	√	√	2	2	3	√	-	√	72*72
3EH4Y	√	√	-	4	2	3	√	-	√	96*96
7EH4Y	√	√	-	2	2	3	√	-	√	80*80
6EH4Y	√	√	-	2	2	3	√	-	√	72*72
3EF4Y	√	-	√	4	2	3	√	-	√	96*96
7EF4Y	√	-	√	2	2	3	√	-	√	80*80
6EF4Y	√	-	√	2	2	3	√	-	√	72*72
3E4	√	-	-	4	2	3	√	√	-	96*96
7E4	√	-	-	2	2	3	√	√	-	80*80
6E4	√	-	-	2	2	3	√	√	-	72*72
3E4Y	√	-	-	4	2	3	√	-	√	96*96
7E4Y	√	-	-	2	2	3	√	-	√	80*80
6E4Y	√	-	-	2	2	3	√	-	√	72*72

Terminal Layout



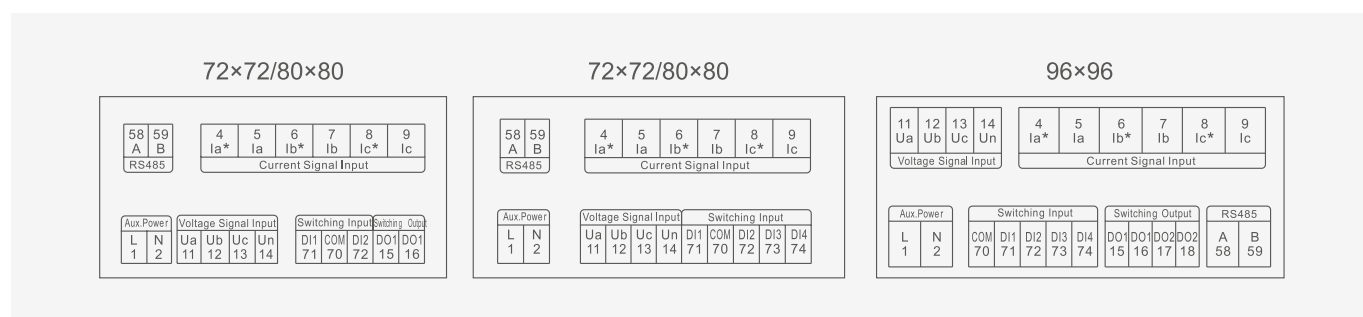
GY500 Series Three Phase Power Meter



Function Module

Function Model NO.	Standard Measurement Function	Customized Extended Function				Display		Panel Size(mm)
		Switching Input	Switching Output	Analog Output	RS485 Communication	LED	LCD	
3AV4-5	Three Phase: A, V, Hz	4	2	3	√	√	-	96*96
3AV4-3	Three Phase: A, V, Hz	4	2	3	√	√	-	96*96
3A4	Three Phase: A	4	2	3	√	√	-	96*96
7A4	Three Phase: A	2	2	3	√	√	-	80*80
6A4	Three Phase: A	2	2	3	√	√	-	72*72
3A4Y	Three Phase: A	4	2	3	√	-	√	96*96
7A4Y	Three Phase: A	2	2	3	√	-	√	80*80
6A4Y	Three Phase: A	2	2	3	√	-	√	72*72
3V4	Three Phase:V	4	2	3	√	√	-	96*96
7V4	Three Phase:V	2	2	3	√	√	-	80*80
6V4	Three Phase:V	2	2	3	√	√	-	72*72
3V4Y	Three Phase:V	4	2	3	√	-	√	96*96
7V4Y	Three Phase:V	2	2	3	√	-	√	80*80
6V4Y	Three Phase:V	2	2	3	√	-	√	72*72

Terminal Layout



GY500 Series Single Phase Power Meter



Function Module

Function Model NO.	Standard Measurement Function	Customized Extended Function				Display		Panel Size(mm)
		Switching Input	Switching Output	Analog Output	RS485 Communication	LED	LCD	
3A1	Single Phase: A	2	2	3	√	√	-	96*96
7A1	Single Phase: A	2	2	3	√	√	-	80*80
6A1	Single Phase: A	2	2	3	√	√	-	72*72
5A1	Single Phase: A	2	2	3	√	√	-	48*96
8A1	Single Phase: A	1	1	1	√	√	-	48*48
3V1	Single Phase: V	2	2	3	√	√	-	96*96
7V1	Single Phase: V	2	2	3	√	√	-	80*80
6V1	Single Phase: V	2	2	3	√	√	-	72*72
5V1	Single Phase: V	2	2	3	√	√	-	48*96
8V1	Single Phase: V	1	1	1	√	√	-	48*48
3F1	Single Phase: Hz	2	2	3	√	√	-	96*96
7F1	Single Phase: Hz	2	2	3	√	√	-	80*80
6F1	Single Phase: Hz	2	2	3	√	√	-	72*72
5F1	Single Phase: Hz	2	2	3	√	√	-	48*96
8F1	Single Phase: Hz	1	1	1	√	√	-	48*48
3AV1	Single Phase: A, V, Hz	2	2	3	√	√	-	96*96
6AV1	Single Phase: A, V, Hz	2	2	3	√	√	-	72*72
3EY	Single Phase: A, V, Hz, W, Var, VA, CosΦ, Kwh, Kvarh	2	2	3	√	-	√	96*96
7EY	Single Phase: A, V, Hz, W, Var, VA, CosΦ, Kwh, Kvarh	2	2	3	√	-	√	80*80
6EY	Single Phase: A, V, Hz, W, Var, VA, CosΦ, Kwh, Kvarh	2	2	3	√	-	√	72*72
5EY	Single Phase: A, V, Hz, W, Var, VA, CosΦ, Kwh, Kvarh	2	2	3	√	-	√	48*96

Terminal Layout

