



PUSH BUTTON / DISPLAY METER / DIN RAIL METER / PROTECTOR

# Single & Three Phase Protetor

With The Mission Of Protecting Electricity Makes Human  
Electricaty Safer And More Assured







GP1-A

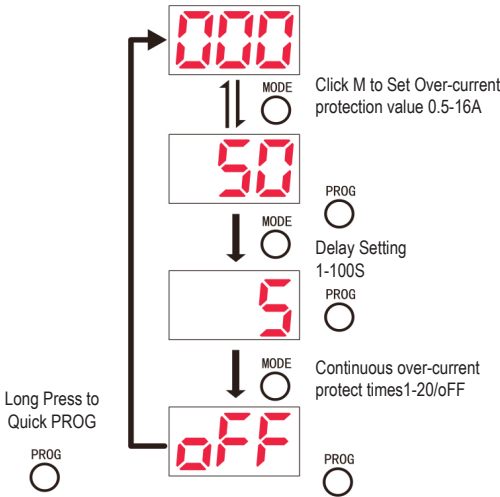
Technical Data

|                          |                                   |                         |                 |
|--------------------------|-----------------------------------|-------------------------|-----------------|
| Rated supply voltage Hz  | AC 220V / 50-60Hz                 | Operation voltage range | AC 185V~300V    |
| Overcurrent trip value   | 0.5-16A                           | Error                   | 2% ±            |
| >U And <U Trip Delay     | 0.5S                              | Reset/Start Delay       | 1~100S          |
| Rated Insulation Voltage | 400V                              | Output contact          | 1NO             |
| Electrical life          | 10 <sup>5</sup>                   | Mechanical life         | 10 <sup>6</sup> |
| Protection Degvree       | IP20                              | Pollution Degree        | 3               |
| Altitude                 | ≤2000m                            | Operating temperature   | -50 C ~ 55 C    |
| Humidity                 | ≤50%at40 C (without condensation) | Storage temperature     | -30 C ~ 70 C    |

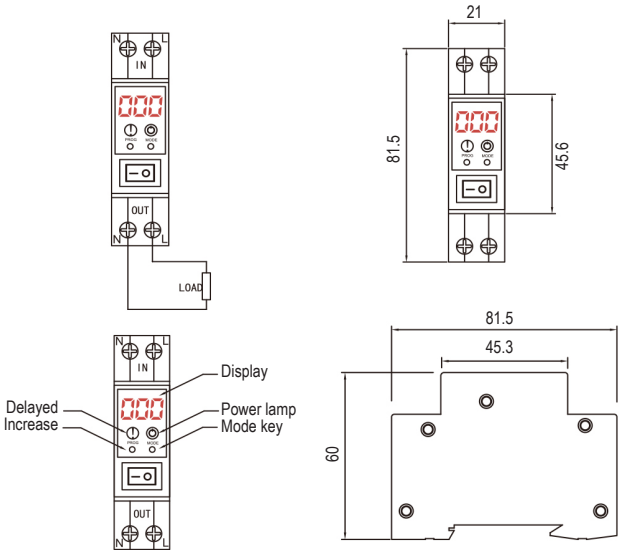
Default Setting

| Technical Parameter                   | Setting range | Step | Factory Setting |
|---------------------------------------|---------------|------|-----------------|
| Over-Voltage Protection Value         | 0.5A-16A      | 0.1A | 5A              |
| Recovery delay time                   | 1~600s        | 1s   | 5s              |
| Continuous over-current protect times | 1-20/oFF      | 1    | oFF             |

Function Setting



Wiring and shape dimensions





GP2-VA

Technical Data

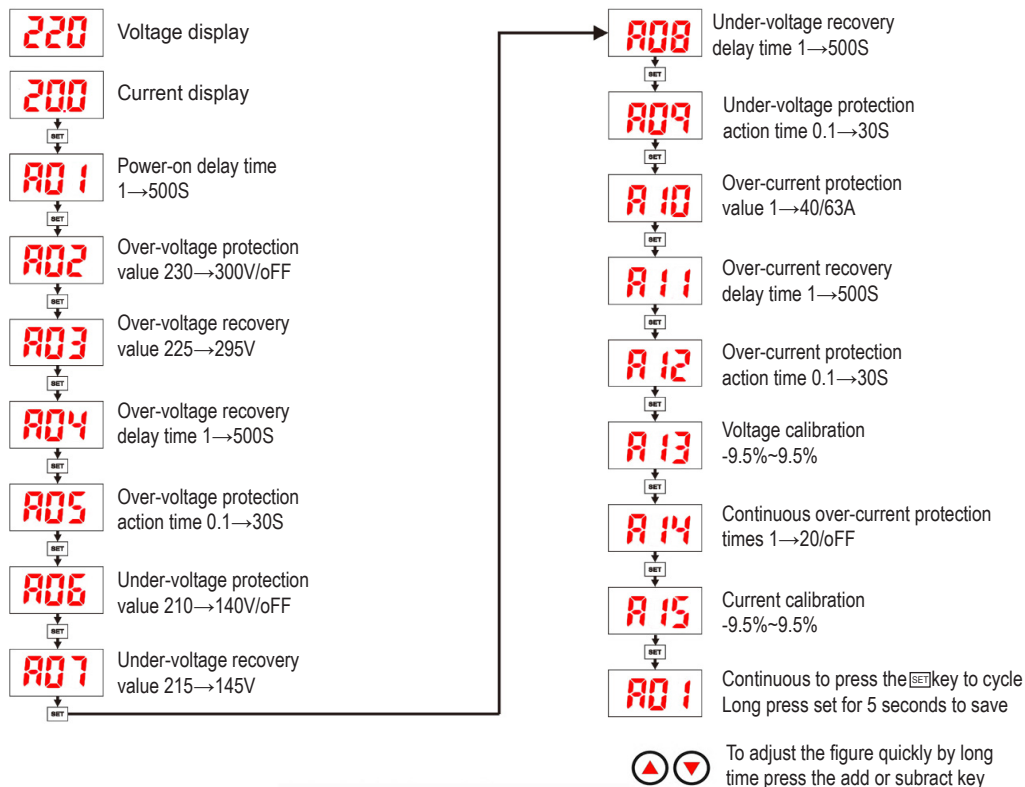
|                              |                                   |                                    |                                           |
|------------------------------|-----------------------------------|------------------------------------|-------------------------------------------|
| Rated supply voltage         | AC 220V                           | Operation voltage range            | AC 80V~400V(single phase)                 |
| Rated frequency              | 50/60Hz                           | Electric current(>A) setting range | 1~40/63A                                  |
| Overvoltage(>U)setting Range | 230~300V                          | Undervoltage(>U)setting Range      | 210~140V                                  |
| Rated Current                | 40/63A(subject to protect label)  | >U And <U Trip Delay               | 0.1~30S                                   |
| Reset/Start Delay            | 1~500S                            | Voltage measurement accuracy       | 2%(Not exceeding 2% of the overall range) |
| Rated Insulation Voltage     | 400V                              | Output contact                     | 1NO                                       |
| Electrical life              | 10 <sup>5</sup>                   | Mechanical life                    | 10 <sup>6</sup>                           |
| Protection Degvree           | IP20                              | Pollution Degree                   | 3                                         |
| Altitude                     | ≤2000m                            | Operatintg temperature             | -50 C ~ 55 C                              |
| Humidity                     | ≤50%at40 C (without condensation) | Storage temperature                | -30 C ~ 70 C                              |

Default setting

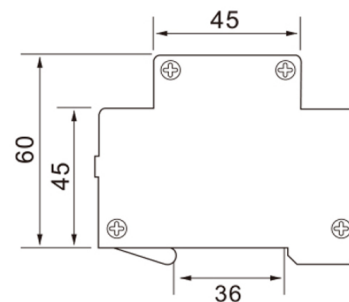
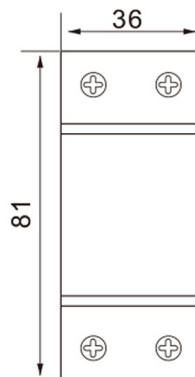
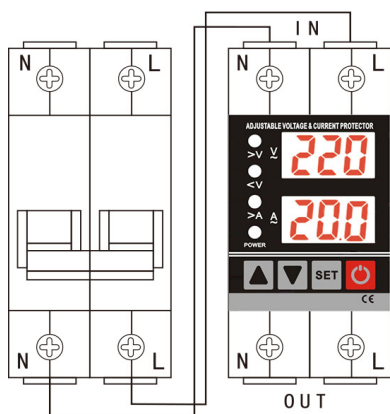
| Technical Parameter                  | Setting range | Step | Factory Setting |
|--------------------------------------|---------------|------|-----------------|
| Power-on Delay Time                  | 1~500S        | 1S   | 10S             |
| Over-Voltage Protection Value        | 230~300V      | 1V   | 270V            |
| Over-Voltage Recovery Value          | 225~295V      | 1V   | 265V            |
| Over-Voltage Recovery Delay Time     | 1~500S        | 1S   | 30S             |
| Over-Voltage Protection Action Time  | 0.1~30S       | 0.1S | 1S              |
| Under-Voltage Protection Value       | 210~140V      | 1V   | 170V            |
| Under-Voltage Recovery Value         | 215~145V      | 1V   | 175V            |
| Under-Voltage Recovery Delay Time    | 1~500S        | 1S   | 30S             |
| Under-Voltage Protection Action Time | 0.1~30S       | 0.1S | 1S              |
| Over-Current Protection Value        | 1~40/63A      | 0.1A | 40/63A          |
| Over-Current recovery Delay Time     | 1~500S        | 1S   | 30S             |
| Voltage Calibration                  | -9.5~9.5%     | 0.5% | 0%              |
| Current Calibration                  | -9.5~9.5%     | 0.5% | 0%              |
| Continuous over-current protectimes  | 1-20/OFF      | 1    | OFF             |
| Current calibration                  | -9.5 ~ 9.5%   | 0.5% | 0%              |



## Function Setting



## Wiring and shape dimensions





GP2-V

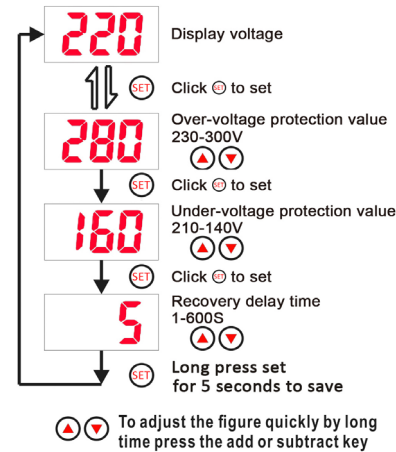
Technical Data

|                               |                                           |                              |                                  |
|-------------------------------|-------------------------------------------|------------------------------|----------------------------------|
| Rated supply voltage          | AC 220V                                   | Operation voltage range      | AC 80V~350V                      |
| Rated frequency               | 50/60Hz                                   | Overvoltage(>U)setting Range | 230~300V                         |
| Undervoltage(>U)setting Range | 210~140V                                  | Rated Current                | 40/63A(subject to protect label) |
| >U And <U Trip Delay          | 0.5S                                      | Reset/Start Delay            | 1~600S                           |
| Voltage measurement accuracy  | 2%(Not exceeding 2% of the overall range) | Rated Insulation Voltage     | 400V                             |
| Output contact                | 1NO                                       | Electrical life              | 10 <sup>5</sup>                  |
| Mechanical life               | 10 <sup>6</sup>                           | Protection Degvree           | IP20                             |
| Pollution Degree              | 3                                         | Altitude                     | ≤2000m                           |
| Operatintg temperature        | -50℃ ~ 55℃                                | Humidity                     | ≤50%at40℃ (without condensation) |
| Storage temperature           | -30℃ ~ 70℃                                |                              |                                  |

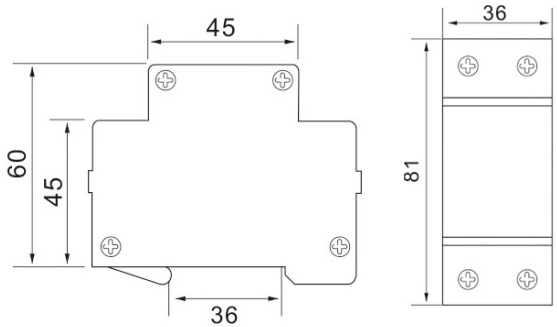
Default Setting

| Technical Parameter            | Setting range | Step | Factory Setting |
|--------------------------------|---------------|------|-----------------|
| Over-Voltage Protection Value  | 230~300V      | 1V   | 280V            |
| Under-Voltage Protection Value | 210~140V      | 1V   | 160V            |
| Recovery delay time            | 1~600s        | 1s   | 5s              |

Function Setting



Wiring and shape dimensions

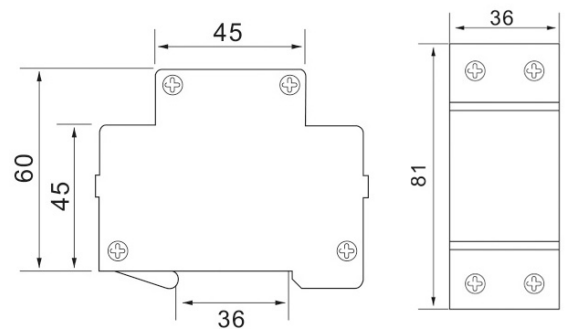




|                          |                                  |                                |                                           |
|--------------------------|----------------------------------|--------------------------------|-------------------------------------------|
| Rated supply voltage     | AC 220V                          | Operation voltage range        | AC 80V~350V                               |
| Rated frequency          | 50/60Hz                          | Electric current setting range | 1~40/63A                                  |
| Rated Current            | 40/63A(subject to product label) | >U And <U Trip Delay           | 0.5S                                      |
| Reset/Start Delay        | 1~600S                           | Voltage measurement accuracy   | 1%(Not exceeding 2% of the overall range) |
| Rated Insulation Voltage | 400V                             | Output contact                 | 1NO                                       |
| Electrical life          | 10 <sup>5</sup>                  | Mechanical life                | 10 <sup>6</sup>                           |
| Protection Degvree       | IP20                             | Pollution Degree               | 3                                         |
| Altitude                 | ≤2000m                           | Operating temperature          | -50℃ ~ 55℃                                |
| Humidity                 | ≤50%at40℃ (without condensation) | Storage temperature            | -30℃ ~ 70℃                                |

| Technical Parameter                  | Setting range | Step | Factory Setting |
|--------------------------------------|---------------|------|-----------------|
| Over-Current protection value        | 1~40/63A      | 0.1A | 40/63A          |
| Recovery delay time                  | 1~600s        | 1S   | 5S              |
| Continuous overcurrent protect times | A01~A20/oFF   | A01  | oFF             |

## Wiring and shape dimensions







GP2-VAKWH

Technical Data

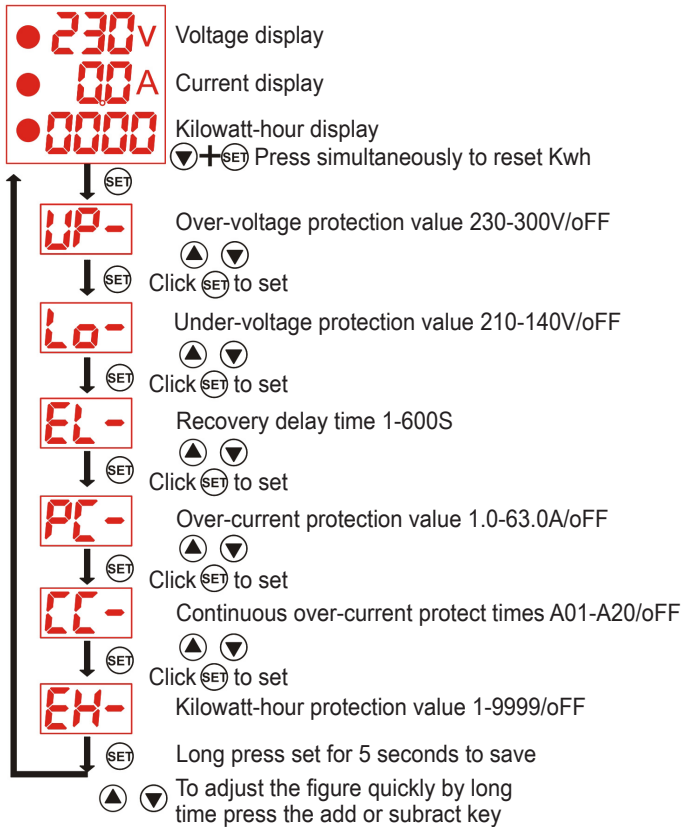
|                                |                                           |                                   |                                  |
|--------------------------------|-------------------------------------------|-----------------------------------|----------------------------------|
| Rated supply voltage           | AC 220V                                   | Operation voltage range           | AC 80~400V(single phase)         |
| Rated frequency                | 50/60Hz                                   | Electric current(>A)setting range | 1-40/63A /oFF                    |
| Overvoltage(>U)setting range   | 230-300V /OFF                             | Undervoltage(>U)setting Range     | 210~140V/oFF                     |
| Kilowatt-hour protection value | 1-9999/oFF                                | Rated Current                     | 40/63A(subject to protect label) |
| >U And <U Trip Delay           | 0.5S                                      | Reset/Start Delay                 | 1~600S                           |
| Voltage measurement accuracy   | 2%(Not exceeding 2% of the overall range) | Rated Insulation Voltage          | 400V                             |
| Output contact                 | 1NO                                       | Electrical life                   | 10 <sup>5</sup>                  |
| Mechanical life                | 10 <sup>6</sup>                           | Protection Degvree                | IP20                             |
| Pollution Degree               | 3                                         | Altitude                          | ≤2000m                           |
| Operatintg temperature         | -50℃ ~ 55℃                                | Humidity                          | ≤50%at40℃ (without condensation) |
| Storage temperature            | -30℃~70℃                                  |                                   |                                  |

Default setting

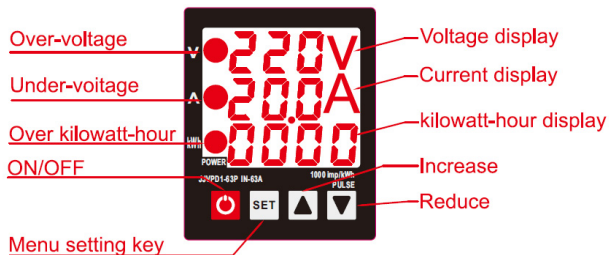
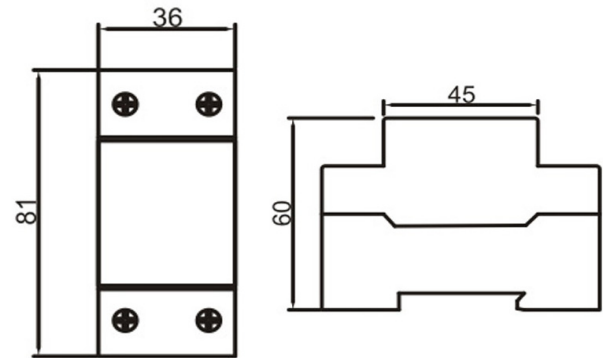
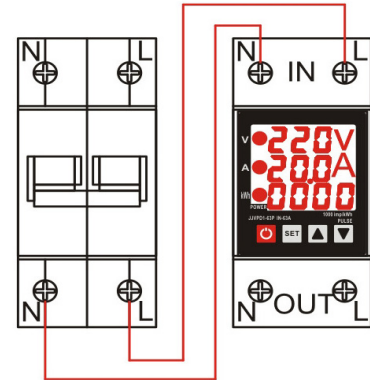
| Technical Parameter                   | Setting range   | Step | Factory Setting |
|---------------------------------------|-----------------|------|-----------------|
| Over-Current protection value         | AC230V-300V/oFF | 1V   | AC280V          |
| Under-voltage protection value        | AC210V-140V/oFF | 1V   | AC160V          |
| Recovery delay time                   | 1S-600S         | 1S   | 5S              |
| Over-current protection value         | 1-40/63A/oFF    | 0.1A | 63A             |
| Continuous over-current protect times | 1-20/OFF        | 1    | oFF             |
| Kilowatt-hour protection value        | 1-9999/oFF      | 1    | 300             |

| Current Specification                      | 15A | 25A | 32A | 50A | 63A  |
|--------------------------------------------|-----|-----|-----|-----|------|
| Rated Operating current(In,A)              | 15  | 25  | 32  | 50  | 63   |
| Max Operating Current Imax(A,within 10min) | 25  | 30  | 40  | 60  | 80   |
| Max power of load(KW)                      | 3.6 | 5.5 | 7   | 11  | 13.9 |

## Function Setting

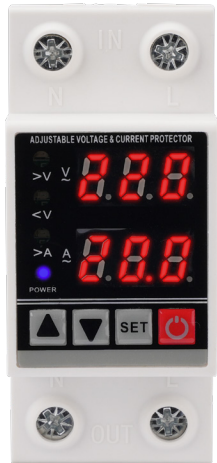


## Wiring and shape dimensions





VAGP-2P



GP3-VA

Technical Data

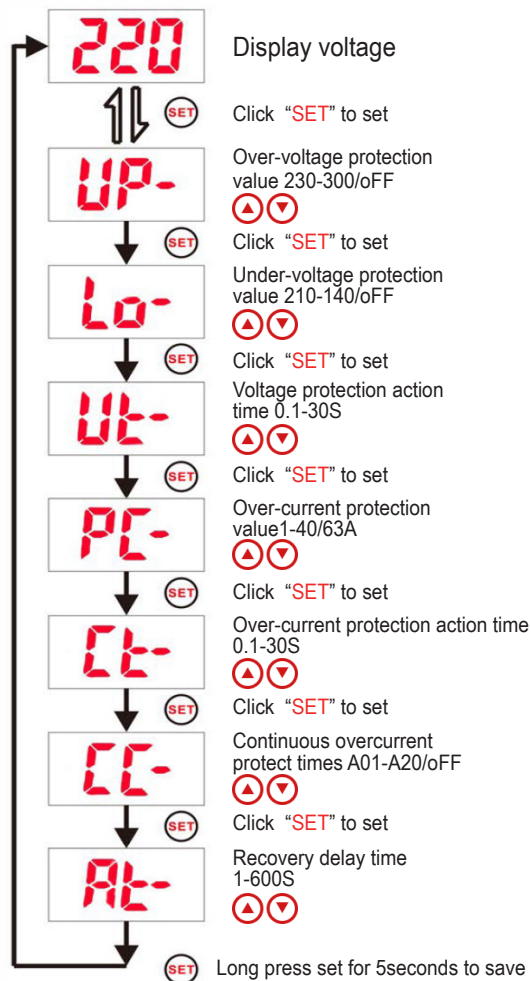
|                              |                                   |                                    |                                           |
|------------------------------|-----------------------------------|------------------------------------|-------------------------------------------|
| Rated supply voltage         | AC 220V                           | Operation voltage range            | AC 80V~400V(single phase)                 |
| Rated frequency              | 50/60Hz                           | Electric current(>A) setting range | 1~40/63A                                  |
| Overvoltage(>U)setting Range | 230~300V                          | Undervoltage(>U)setting Range      | 210~140V                                  |
| Rated Current                | 40/63A(subject to protect label)  | >U And <U Trip Delay               | 0.1~30S                                   |
| Reset/Start Delay            | 1~500S                            | Voltage measurement accuracy       | 2%(Not exceeding 2% of the overall range) |
| Rated Insulation Voltage     | 400V                              | Output contact                     | 1NO                                       |
| Electrical life              | 10 <sup>5</sup>                   | Mechanical life                    | 10 <sup>6</sup>                           |
| Protection Degvree           | IP20                              | Pollution Degree                   | 3                                         |
| Altitude                     | ≤2000m                            | Operatintg temperature             | -50 C ~ 55 C                              |
| Humidity                     | ≤50%at40 C (without condensation) | Storage temperature                | -30 C ~ 70 C                              |

Default Setting

| Technical Parameter                  | Setting range | Step | Factory Setting |
|--------------------------------------|---------------|------|-----------------|
| Over-Current protection value        | 230V-300V     | 1V   | 280V            |
| Under-voltage protection value       | 210V-140V     | 1V   | 160V            |
| Voltage protection action time       | 0.1~30S       | 0.1S | 1S              |
| Over-current protection value        | 1-40/63A/oFF  | 0.1A | 40/63A          |
| Over-current protection action time  | 0.1~30S       | 0.1S | 1S              |
| Continuous overcurrent protect times | A01~A20/oFF   | A01  | OFF             |
| Recovery delay time                  | 1~600S        | 1S   | 5S              |

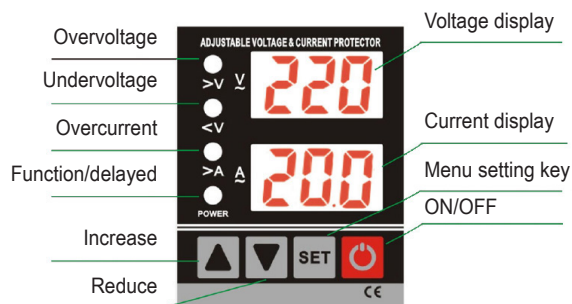
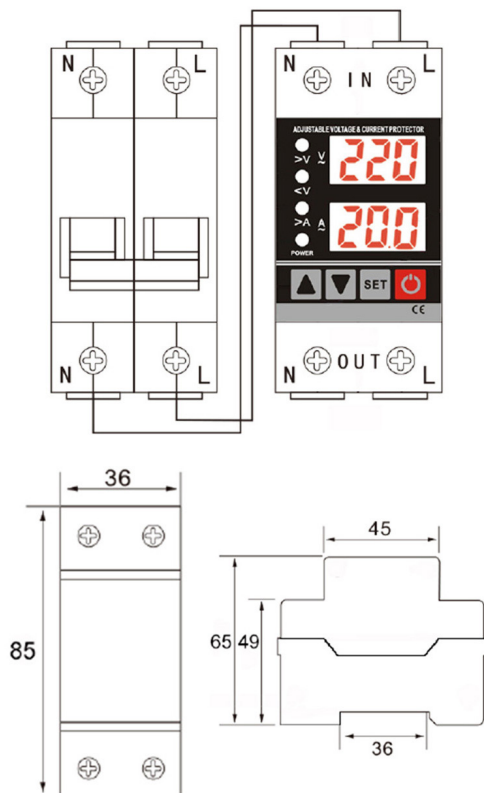
| Current Specification                                   | 15A | 25A | 32A | 40A | 50A | 63A  |
|---------------------------------------------------------|-----|-----|-----|-----|-----|------|
| Rated Operating current(In,A)                           | 15  | 25  | 32  | 40  | 50  | 63   |
| Max Operating Current I <sub>max</sub> (A,within 10min) | 25  | 30  | 40  | 50  | 60  | 80   |
| Max power of load(KW)                                   | 3.6 | 5.5 | 7   | 8.8 | 11  | 13.9 |

## Function Setting



⬆ ⬇ To adjust the figure quickly by long time press the add or subtract key

## Wiring and shape dimensions







AGP-2P



GP3-V

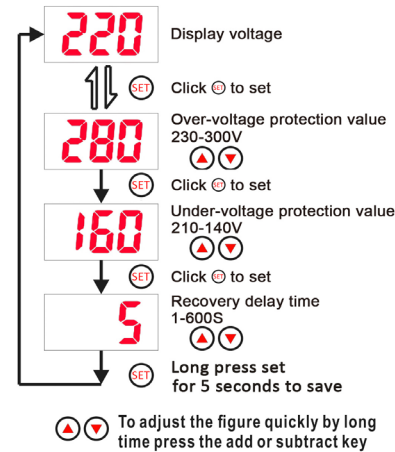
Technical Data

|                               |                                           |                              |                                   |
|-------------------------------|-------------------------------------------|------------------------------|-----------------------------------|
| Rated supply voltage          | AC 220V                                   | Operation voltage range      | AC 80V~350V                       |
| Rated frequency               | 50/60Hz                                   | Overvoltage(>U)setting Range | 230~300V                          |
| Undervoltage(>U)setting Range | 210~140V                                  | Rated Current                | 40/63A(subject to protect label)  |
| >U And <U Trip Delay          | 0.5S                                      | Reset/Start Delay            | 1~600S                            |
| Voltage measurement accuracy  | 2%(Not exceeding 2% of the overall range) | Rated Insulation Voltage     | 400V                              |
| Output contact                | 1NO                                       | Electrical life              | 10 <sup>5</sup>                   |
| Mechanical life               | 10 <sup>6</sup>                           | Protection Degvree           | IP20                              |
| Pollution Degree              | 3                                         | Altitude                     | ≤2000m                            |
| Operatintg temperature        | -50 C ~ 55 C                              | Humidity                     | ≤50%at40 C (without condensation) |
| Storage temperature           | -30 C ~ 70 C                              |                              |                                   |

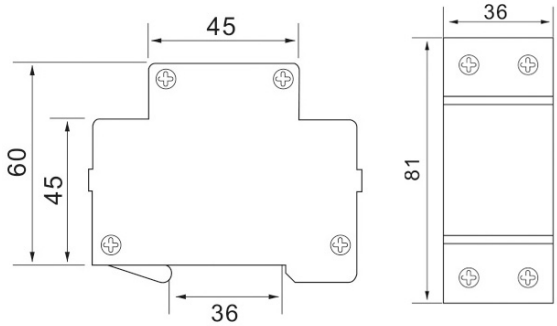
Default Setting

| Technical Parameter            | Setting range | Step | Factory Setting |
|--------------------------------|---------------|------|-----------------|
| Over-Voltage Protection Value  | 230~300V      | 1V   | 280V            |
| Under-Voltage Protection Value | 210~140V      | 1V   | 160V            |
| Recovery delay time            | 1~600s        | 1s   | 5s              |

Function Setting



Wiring and shape dimensions





GP3-A

## Technical Data

|                          |                                  |                                |                                           |
|--------------------------|----------------------------------|--------------------------------|-------------------------------------------|
| Rated supply voltage     | AC 220V                          | Operation voltage range        | AC 80V~350V                               |
| Rated frequency          | 50/60Hz                          | Electric current setting range | 1~40/63A                                  |
| Rated Current            | 40/63A(subject to protect label) | >U And <U Trip Delay           | 0.5S                                      |
| Reset/Start Delay        | 1~600S                           | Voltage measurement accuracy   | 1%(Not exceeding 2% of the overall range) |
| Rated Insulation Voltage | 400V                             | Output contact                 | 1NO                                       |
| Electrical life          | 10 <sup>5</sup>                  | Mechanical life                | 10 <sup>6</sup>                           |
| Protection Degree        | IP20                             | Pollution Degree               | 3                                         |
| Altitude                 | ≤2000m                           | Operating temperature          | -50℃ ~ 55℃                                |
| Humidity                 | ≤50%at40℃ (without condensation) | Storage temperature            | -30℃ ~ 70℃                                |

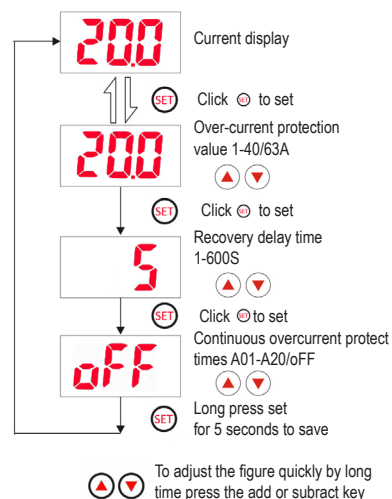
## Default Setting

| Technical Parameter                  | Setting range | Step | Factory Setting |
|--------------------------------------|---------------|------|-----------------|
| Over-Current protection value        | 1~40/63A      | 0.1A | 40/63A          |
| Recovery delay time                  | 1~600s        | 1S   | 5S              |
| Continuous overcurrent protect times | A01~A20/oFF   | A01  | oFF             |

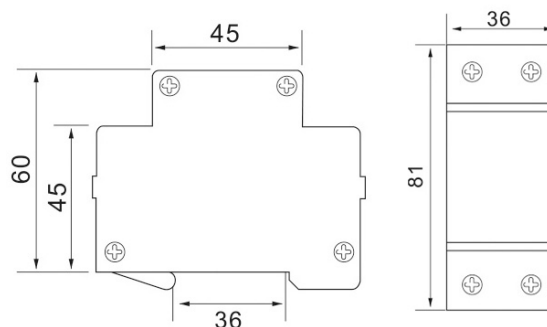


GP3-A

## Function Setting



## Wiring and shape dimensions



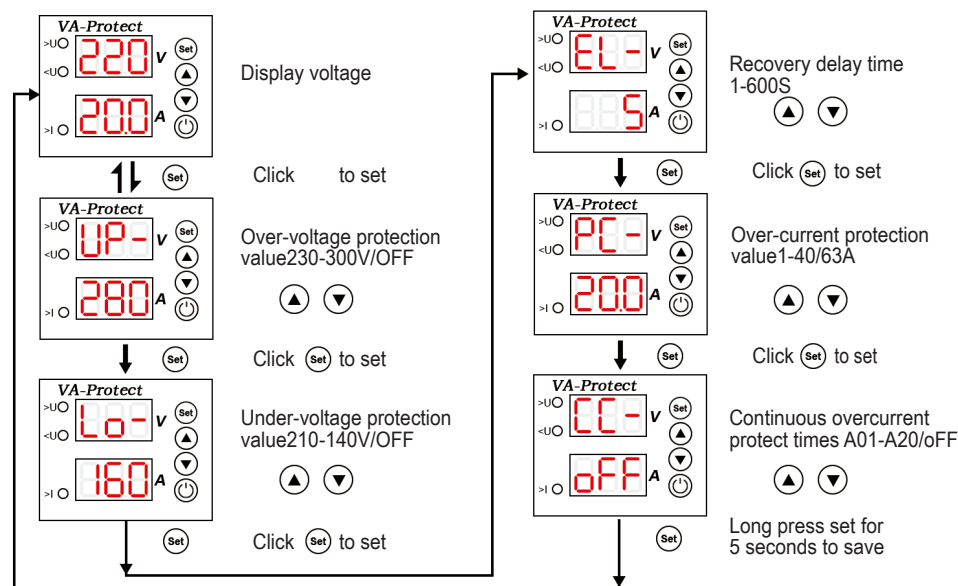


GP4-VA

## Technical Data

|                              |                                   |                                    |                                           |
|------------------------------|-----------------------------------|------------------------------------|-------------------------------------------|
| Rated supply voltage         | AC 220V                           | Operation voltage range            | AC 80V~400V(single phase)                 |
| Rated frequency              | 50/60Hz                           | Electric current(>A) setting range | 1~40/63A                                  |
| Overvoltage(>U)setting Range | 230~300V                          | Undervoltage(>U)setting Range      | 210~140V                                  |
| Rated Current                | 40/63A(subject to protect label)  | >U And <U Trip Delay               | 0.5S                                      |
| Reset/Start Delay            | 1~600S                            | Voltage measurement accuracy       | 3%(Not exceeding 3% of the overall range) |
| Rated Insulation Voltage     | 400V                              | Output contact                     | 1NO                                       |
| Electrical life              | 10 <sup>5</sup>                   | Mechanical life                    | 10 <sup>6</sup>                           |
| Protection Degvree           | IP20                              | Pollution Degree                   | 3                                         |
| Altitude                     | ≤2000m                            | Operatintg temperature             | -50 C ~ 55 C                              |
| Humidity                     | ≤50%at40 C (without condensation) | Storage temperature                | -30 C ~ 70 C                              |

## Function Setting



$\uparrow$   $\downarrow$  To adjust the figure quickly by long time press the add or subtract key

## Technical Data

|                          |                                  |                                |                                           |
|--------------------------|----------------------------------|--------------------------------|-------------------------------------------|
| Rated supply voltage     | AC 220V                          | Operation voltage range        | AC 80V~350V                               |
| Rated frequency          | 50/60Hz                          | Electric current setting range | 1~40/63A                                  |
| Rated Current            | 40/63A(subject to protect label) | >U And <U Trip Delay           | 0.5S                                      |
| Reset/Start Delay        | 1~600S                           | Voltage measurement accuracy   | 1%(Not exceeding 2% of the overall range) |
| Rated Insulation Voltage | 400V                             | Output contact                 | 1NO                                       |
| Electrical life          | 10 <sup>5</sup>                  | Mechanical life                | 10 <sup>6</sup>                           |
| Protection Degree        | IP20                             | Pollution Degree               | 3                                         |
| Altitude                 | ≤2000m                           | Operating temperature          | -50℃ ~ 55℃                                |
| Humidity                 | ≤50%at40℃ (without condensation) | Storage temperature            | -30℃ ~ 70℃                                |

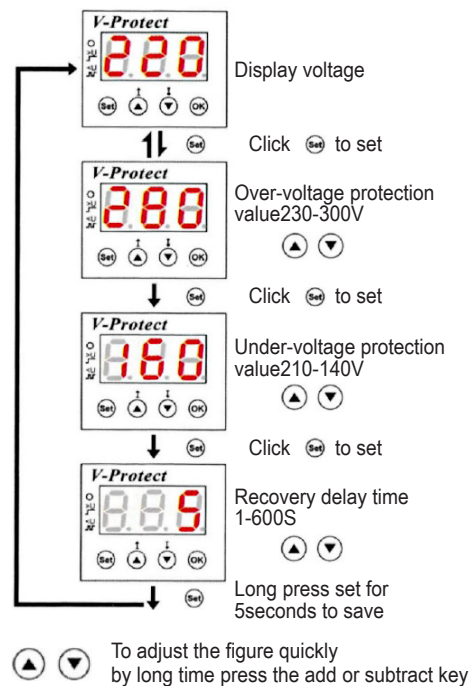


GP4-V

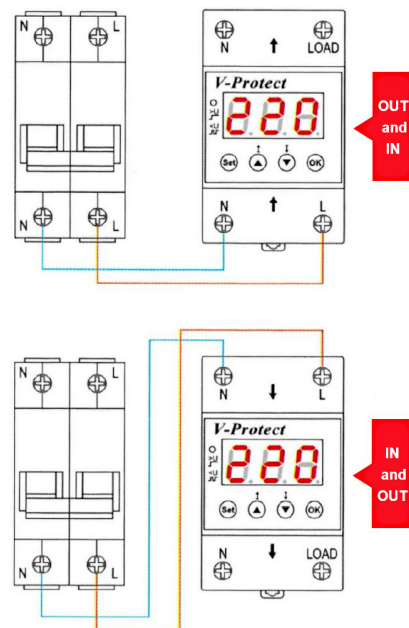
## Function Setting



GP4-V



## Wiring and shape dimensions





GP8-100



GP5-VA

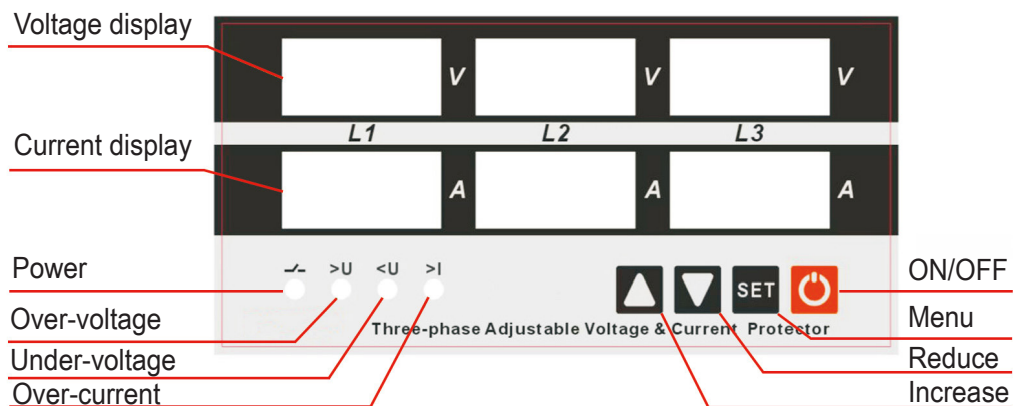
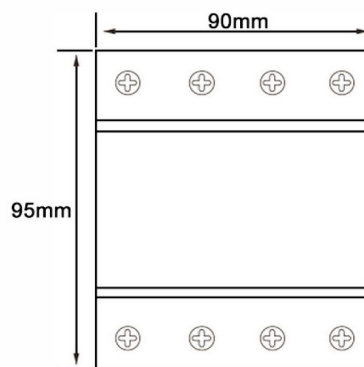
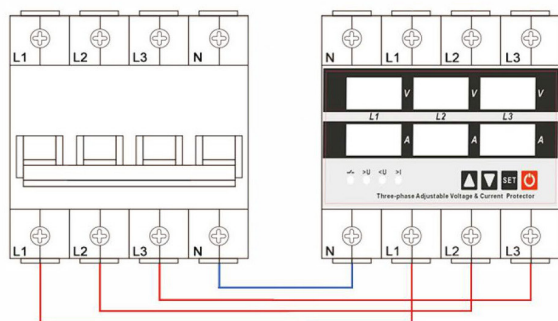
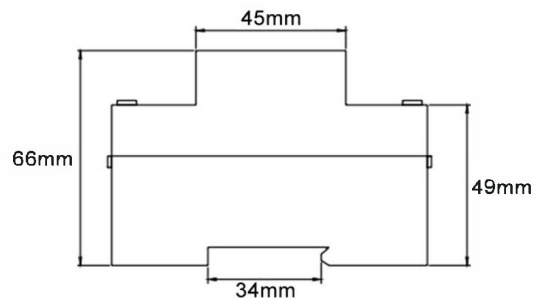
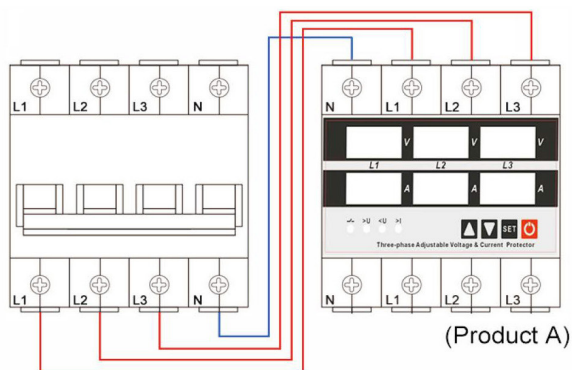
Technical Data

|                                   |                                    |                          |
|-----------------------------------|------------------------------------|--------------------------|
| Rated Supply Voltage              | AC 220V                            | AC 380V                  |
| Rated Frequency                   | 50/60Hz                            |                          |
| Opeartion Voltage Range           | AC 80~400V(three phase)            | AC 140~700V(three phase) |
| Electric current(>A)setting range | 1~63A/80A                          |                          |
| Overvoltage(>U)setting Range      | 230~300V                           | 390~500V                 |
| Undervoltage(<U)setting Range     | 210~140V                           | 370~260V                 |
| Rated Current                     | 63A/80A                            |                          |
| >U And <Trip Delay                | 0.1~30S                            |                          |
| Reset/Start Delay                 | 1~500S                             |                          |
| Voltage Measurement Accuracy      | 2%                                 |                          |
| Rated Insulation Voltage          | 400V                               | 700V                     |
| Output contact                    | 3NO                                |                          |
| Protection Degree                 | Ip20                               |                          |
| Pollution Degree                  | 3                                  |                          |
| Operatintg Temperature            | -50 C ~55 C (without condensation) |                          |
| Altitude                          | ≤2000m                             |                          |
| Humidity                          | ≤50%at40°C (without condensation)  |                          |
| Storage Temperature               | -30 C ~70 C                        |                          |

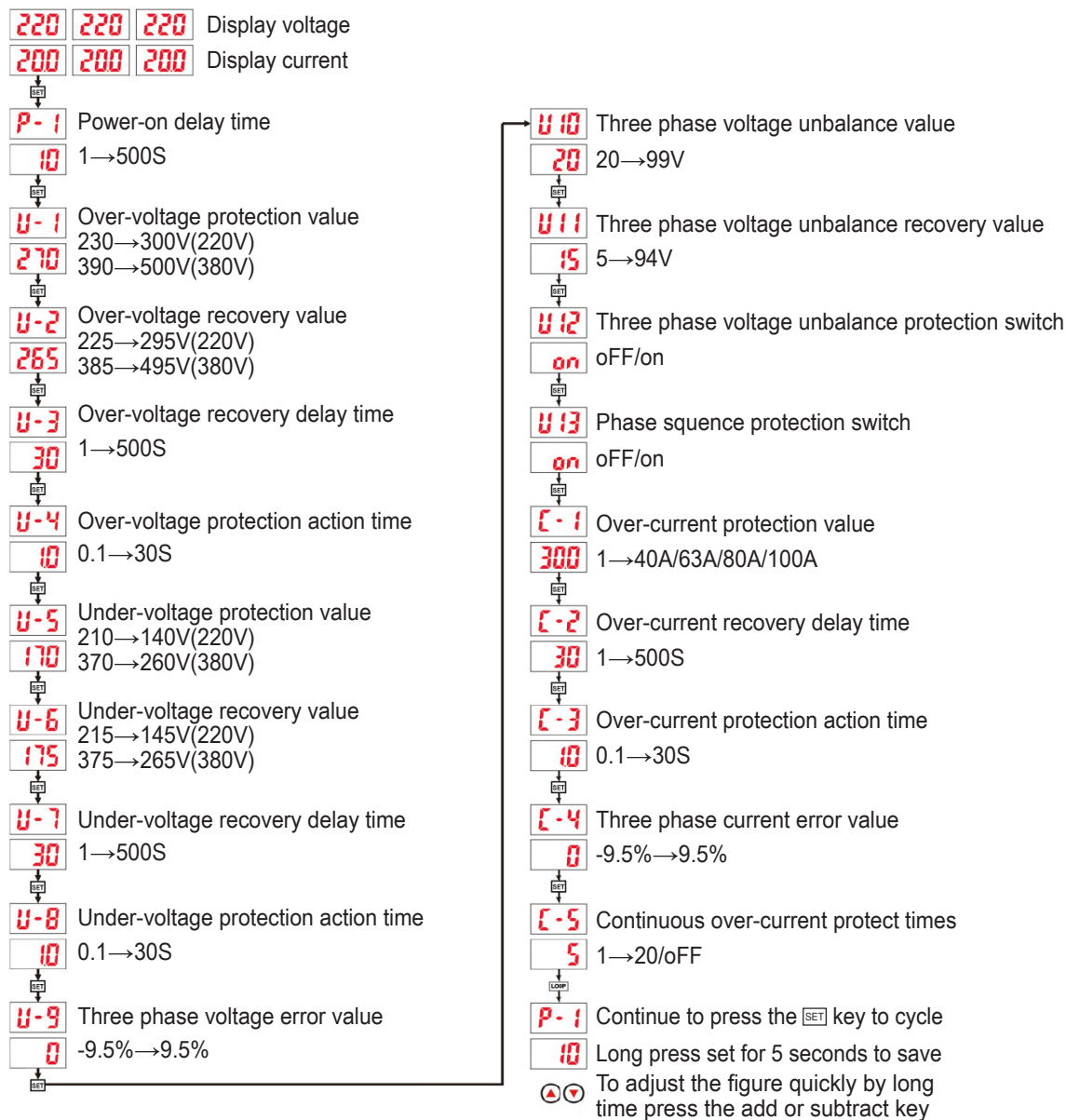
| Rated supply voltage                         | AC 220V |      |      |      | AC 380V |     |      |      |
|----------------------------------------------|---------|------|------|------|---------|-----|------|------|
| Current specification                        | 40A     | 63A  | 80A  | 100A | 40A     | 63A | 80A  | 100A |
| Rated operating current(In,A)                | 40      | 63   | 80   | 100  | 40      | 63  | 80   | 100  |
| Maximum operatng current lmax(A,with 10 min) | 63A     | 80A  | 100A | 125A | 63A     | 80A | 100A | 125A |
| Max power of load(KW)                        | 8.8     | 13.9 | 17.6 | 22   | 15.2    | 24  | 30.4 | 38   |



## Wiring and shape dimensions:

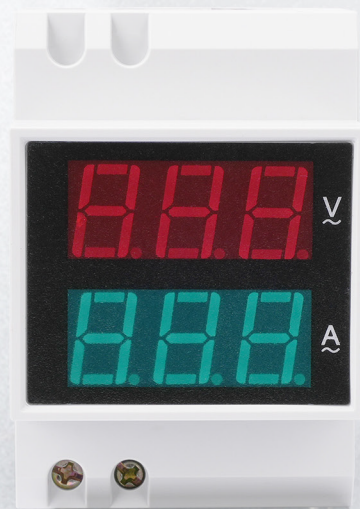


## Function Setting



# ***Din Rail Display Meter***

Accurate Display Safe And Flame Retardant  
To Ensure Circuit Safety





GV-1P



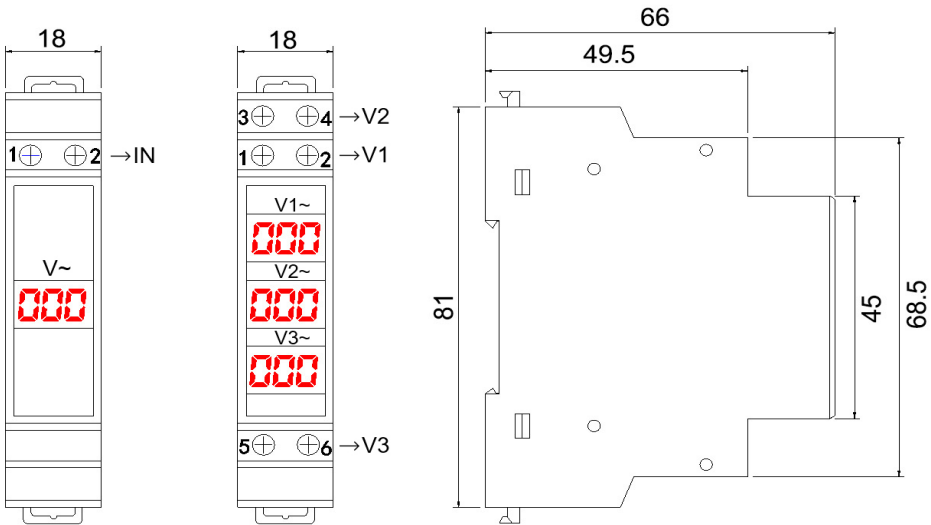
GV-3P

Technical Parameter

|                              |                               |
|------------------------------|-------------------------------|
| Voltage Display Range        | AC 80V-500V                   |
| Frequency Range              | AC 50~60Hz                    |
| Color                        | Red                           |
| Discrepancy Range            | ± 2%                          |
| Rated Insulation Voltage     | 660V                          |
| Sampling Rate                | 1 time /s                     |
| Input loop power consumption | ≤2VA                          |
| Altitude                     | ≤2000m                        |
| Ambient Temperature          | - 50~55 ℃                     |
| Humidity                     | 50% and 40℃ Condensation free |
| Storage Temperature          | - 30 ℃ ~70 ℃                  |

● This product is prohibited using for frequency conversion, inverter,the power environment with high harmonic interference.

Product Dimensions





GA-1P



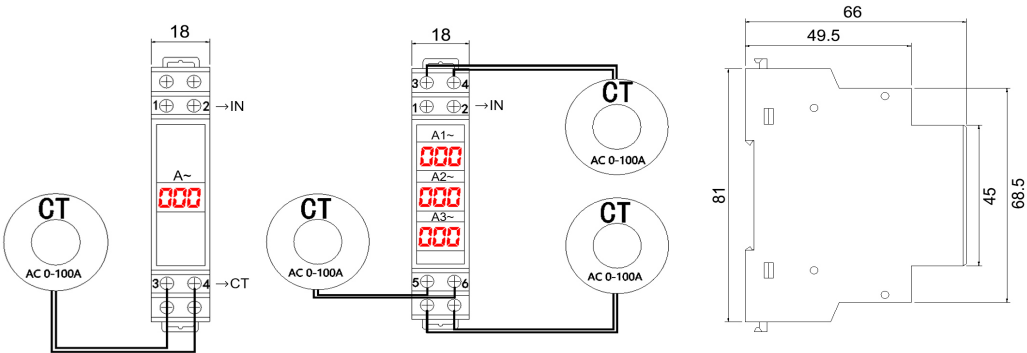
GA-3P

Technical Parameter

|                                  |                               |
|----------------------------------|-------------------------------|
| Supply Voltage / Frequency Range | AC 80V-500V / 50-60HZ         |
| Current Range                    | AC 0-100A                     |
| Color                            | Red                           |
| Discrepancy Range                | ± 2%                          |
| Rated Insulation Voltage         | 660V                          |
| Sampling Rate                    | 1 time /s                     |
| Input loop power consumption     | ≤2VA                          |
| Altitude                         | ≤2000m                        |
| Ambient Temperature              | - 50~55 ℃                     |
| Humidity                         | 50% and 40℃ Condensation free |
| Storage Temperature              | - 30 ℃ ~70 ℃                  |

● This product is prohibited using for frequency conversion, inverter,the power environment with high harmonic interference.

Product Dimensions





GHZ-1P

Technical Parameter

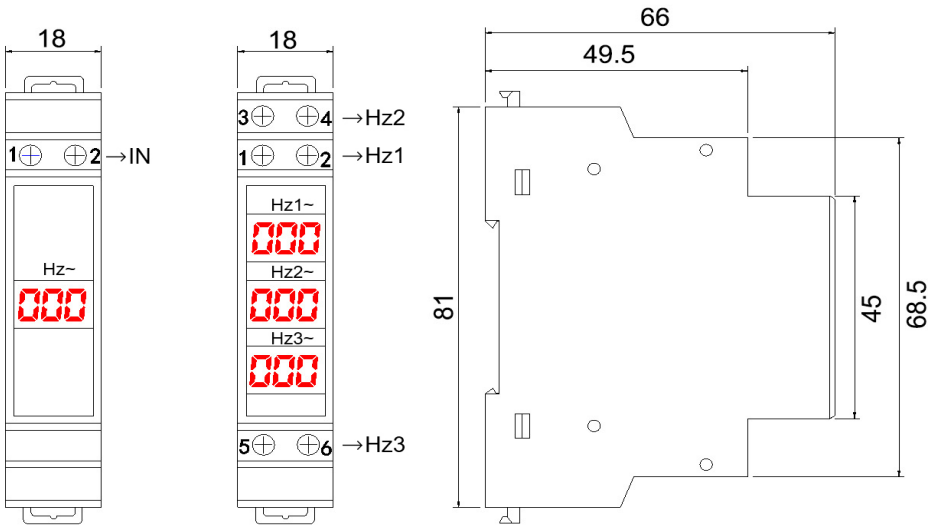
|                              |                               |
|------------------------------|-------------------------------|
| Supply Voltage               | AC 80V-500V                   |
| Frequency Measurement Range  | AC 0~99Hz                     |
| Color                        | Red                           |
| Discrepancy Range            | ± 2%                          |
| Rated Insulation Voltage     | 660V                          |
| Sampling Rate                | 1 time /s                     |
| Input loop power consumption | ≤2VA                          |
| Altitude                     | ≤2000m                        |
| Ambient Temperature          | - 50~55 ℃                     |
| Humidity                     | 50% and 40℃ Condensation free |
| Storage Temperature          | - 30 ℃ ~70 ℃                  |

● This product is prohibited using for frequency conversion, inverter,the power environment with high harmonic interference.

Product Dimensions



GHZ-3P







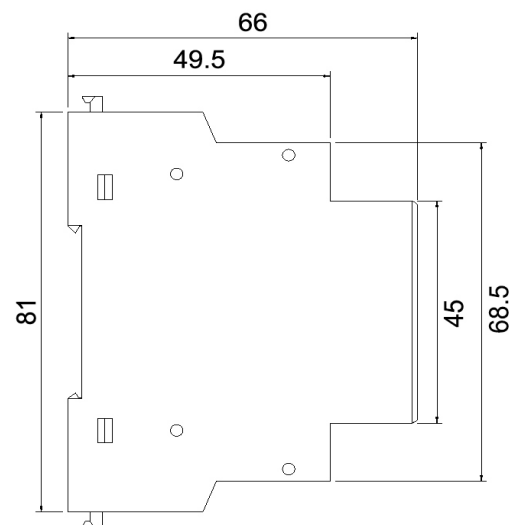
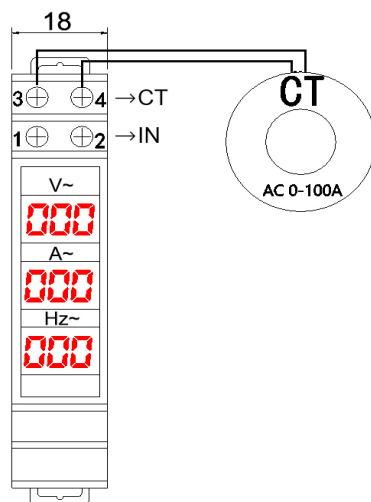
GVAHz-1P

## Technical Parameter

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Voltage / Frequency Measurement Range | AC 80V-500V / 0-99Hz                           |
| Current Measurement Range             | AC 0-100A                                      |
| Color                                 | Red                                            |
| Discrepancy Range                     | $\pm 2\%$                                      |
| Rated Insulation Voltage              | 660V                                           |
| Sampling Rate                         | 1 time /s                                      |
| Input loop power consumption          | $\leq 2\text{VA}$                              |
| Altitude                              | $\leq 2000\text{m}$                            |
| Ambient Temperature                   | $-50 \sim 55^{\circ}\text{C}$                  |
| Humidity                              | 50% and $40^{\circ}\text{C}$ Condensation free |
| Storage Temperature                   | $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$  |

- This product is prohibited using for frequency conversion, inverter, the power environment with high harmonic interference.

## Product Dimensions



## Technical Parameter



VADM-29

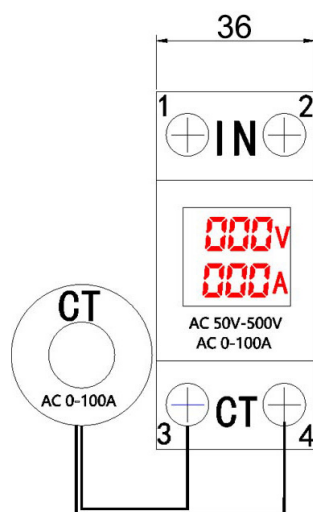
|                                  |                                                |          |
|----------------------------------|------------------------------------------------|----------|
| Supply Voltage / Frequency Range | AC 50V-500V / 50-60Hz                          |          |
| Discrepancy Range                | $\pm 2\%$                                      |          |
| Operating Voltage Range          | AC 50-500V                                     |          |
| Rated Insulation Voltage         | 660V                                           |          |
| Current Display Range            | AC 1-100A                                      | AC 1-63A |
| Degree of Protection             | IP20                                           |          |
| Environmental Protection Rating  | 3                                              |          |
| Altitude                         | $\leq 2000\text{m}$                            |          |
| Sample rate                      | About 1 time/s                                 |          |
| Ambient Temperature              | $-50\sim 55^{\circ}\text{C}$                   |          |
| Humidity                         | 50% and $40^{\circ}\text{C}$ Condensation free |          |
| Storage Temperature              | $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$  |          |

## Product Dimensions

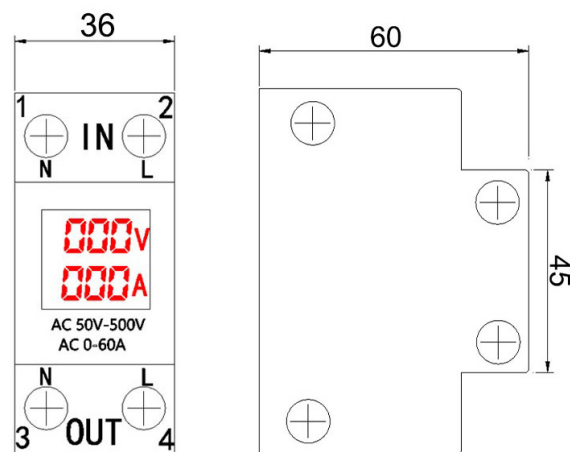


VADM-29

100A CT External



60A CT Built-in





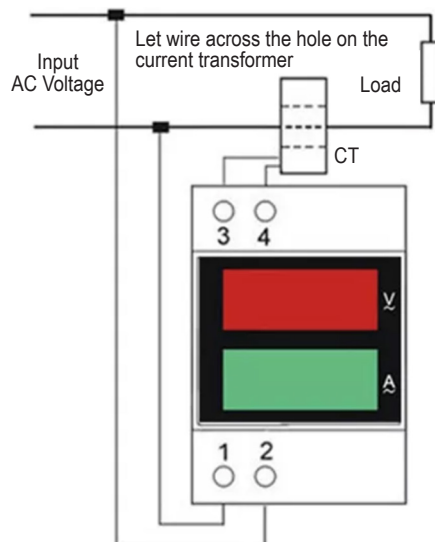
G52-2042

## Technical Parameter

|              |                                                                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy     | 1%                                                                                                                                                                                                       |
| Display mode | 0.5 inch LED digital tube                                                                                                                                                                                |
| Range        | AC voltage : 80~300V, 200~450V (You should select the one of measuring range in your order)<br>AC current: 0.1~99.9A (You should order current transformer when current is higher than 100A independent) |
| Speed        | 2 per second                                                                                                                                                                                             |
| Size         | 54*80*64 mm                                                                                                                                                                                              |
| Installation | Din-rail                                                                                                                                                                                                 |

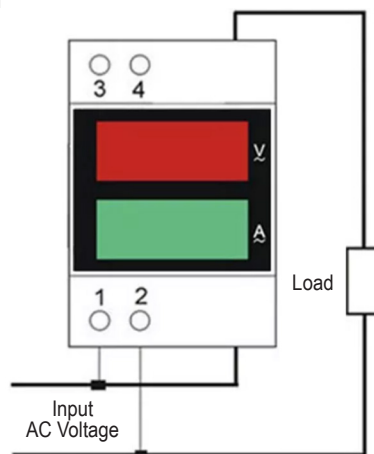
## Application Method

1. Connect the measuring voltage to the 1 and 2 terminal on the bottom left of meter.
2. Install current transformer as graph 1. Connect the wires of secondary transformer to the terminal of 3 and 4 on the meter surface. Make the measure wire across to the hole of current transformer.
3. If measuring current between 0.1 and 99.9A, see graph2, you can get current only making the wire across the hole on the bottom of the meter, and the direction of insert do not impact the measure result.



Graph 1: install current transformer

Making the wire across the hole which in the right side of the meter



Graph 2: Connect graph when AC current lower than 100A



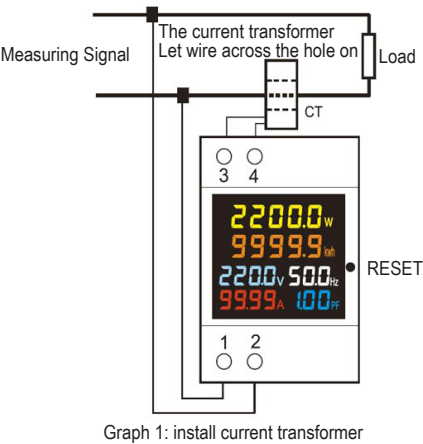
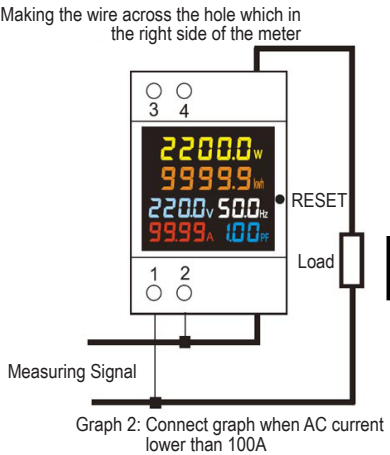
G52-2066

Technical Parameter

|              |                                                                                                                                                                                                                                                                                                                                                      |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy     | 1%±2 words                                                                                                                                                                                                                                                                                                                                           |
| Range        | AC voltage: AC 40.0-300.0V or AC 200.0-450.0V(You should select one type of the meter in your order)                                                                                                                                                                                                                                                 |
|              | AC current: 0.1~99.9A (You should order current transformer when current is higher than 100A independent)                                                                                                                                                                                                                                            |
|              | Frequency:45.0Hz-65.0Hz                                                                                                                                                                                                                                                                                                                              |
|              | Power Factor:0.00-1.00PF                                                                                                                                                                                                                                                                                                                             |
|              | Electric Power:0-450000W, the electric power resolution is 0.1W when measure electric power between 0-9999.9W, otherwise the electric power resolution is 1W.                                                                                                                                                                                        |
| Speed        | Electric Energy:0-99999kwh, the display of electric energy resolution is 0.01kwh when measure electric engery between 0-999.99kwh, the display of electric energy resolution is 0.1kwh whenmeasure electric engery between 1000.0-9999.9kwh and the display of electric energy resolution is 1kwh when measure electric engery larger than 9999.9kwh |
|              | 2 times per second                                                                                                                                                                                                                                                                                                                                   |
| Size         | 54*80*64 mm                                                                                                                                                                                                                                                                                                                                          |
| Installation | Din-rail                                                                                                                                                                                                                                                                                                                                             |

Application Method

1. Connect the measure voltage to the 1 and 2 terminal
2. Connections of meter with internal current transformer as graph 1. Make the wire through the hole in the meter and the direction chose arbitrarily.
3. Connections of meter with external current transformer as graph 2. Make the wire through the hole in the meter, and connect the two wires of the secondary transformer to the 3 and 4 terminal.
4. When power on, the meter display the measure parameters.
5. When power on, you can press the button of SAM CK last for 5 seconds, then the electric energy will to be zero and start to cumulate when release the button. And when power off, the meter can save the value of electric energy and go on cumulating data when the meter power-on next.



## Technical Parameter

|              |                                                                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy     | 1%                                                                                                                                                                                                       |
| Display mode | 0.5 inch LED digital tube                                                                                                                                                                                |
| Range        | AC voltage : 80~300V, 200~450V (You should select the one of measuring range in your order)<br>AC current: 0.1~99.9A (You should order current transformer when current is higher than 100A independent) |
| Speed        | 2 per second                                                                                                                                                                                             |
| Size         | 54*80*64 mm                                                                                                                                                                                              |
| Installation | Din-rail                                                                                                                                                                                                 |

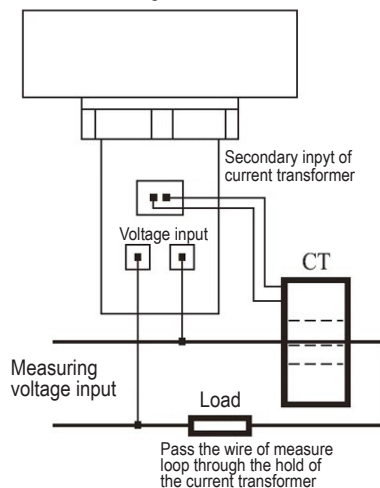


G48-2058

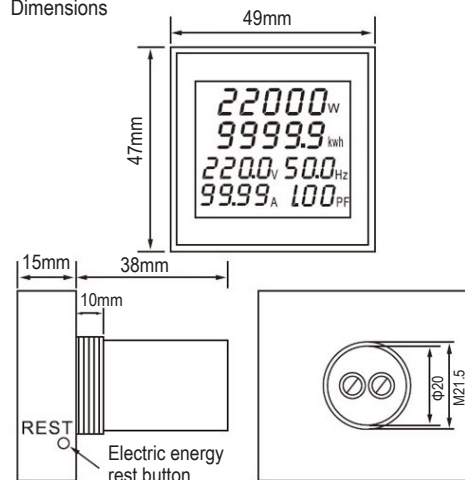
## Application Method

1. According to the wiring diagram, connect the plug two-wire of the current transformer to transformer the input on meter, make the current return conductor across the hold which in the middle of the current transformer.
2. Connect the voltage measurement to the voltage input terminal of the meter. Then turn on and measure the voltage to start to read the measure result.
3. The electric energy reset button is on the right-bottom of the meter. you can press the button with a needle last for.
4. Second, then the electric energy will be reset.

Connection Diagram



Dimensions



## Attention

The meter with measure range between 250-450V can only use to measure 50Hz AC city electricity, it will be destroyed when use to measure square wave, output of inverter and correction sine wave. The meter with measure range between 50-300 not affected.