



DIN RAIL Power Meter

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 ⁵	Mechanical life	10 ⁵
Protection Degvree	IP20	Pollution Degree	3
Altitude	≤2000m	Operatintg temperature	-50℃ ~ 55℃
Humidity	≤50%at40℃ (without condensation)	Storage temperature	-30℃ ~ 70℃

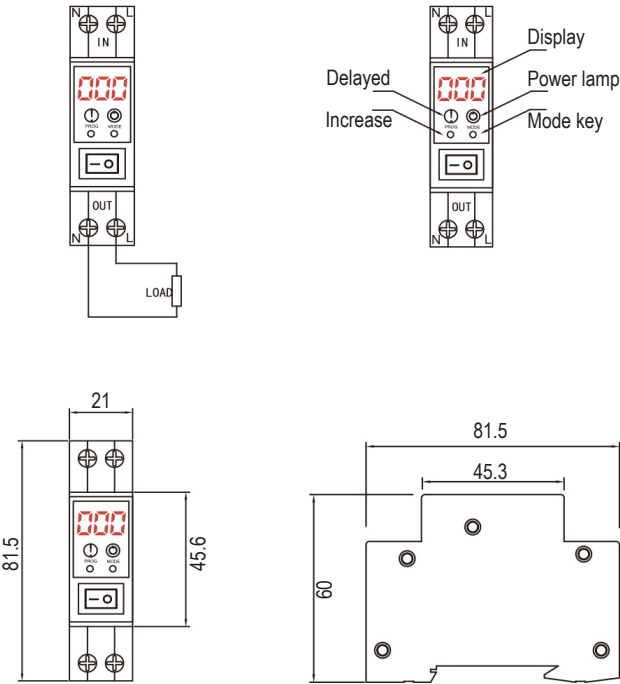


NP1-A

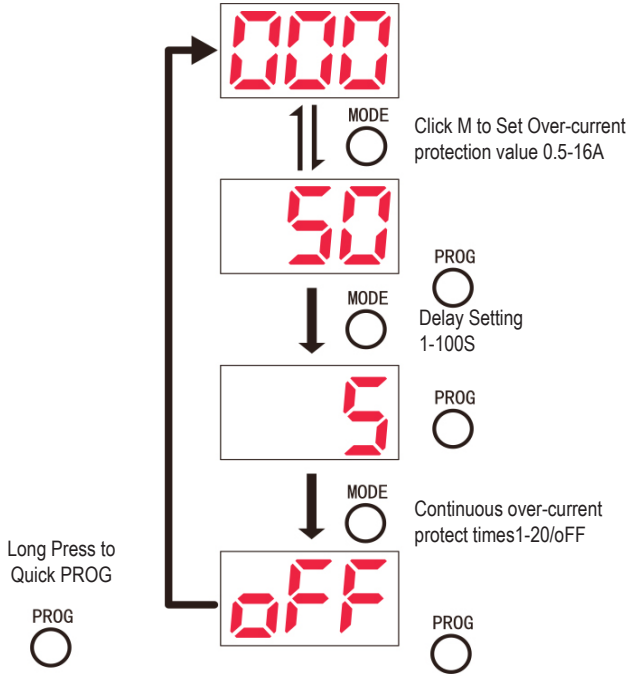
Default Setting

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

Wiring and shape dimensions



Function Setting



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 rangeV)
Rated Insulation Voltage	400V	Output contact	1NO
Electrical life	10 ⁵	Mechanical life	10 ⁶
Protection Degvree	IP20	Pollution Degree	3
Altitude	≤2000m	Operatintg temperature	-50 ℃ ~ 55 ℃
Humidity	≤50%at40 ℃ (without condensation)	Storage temperature	-30 ℃ ~ 70 ℃

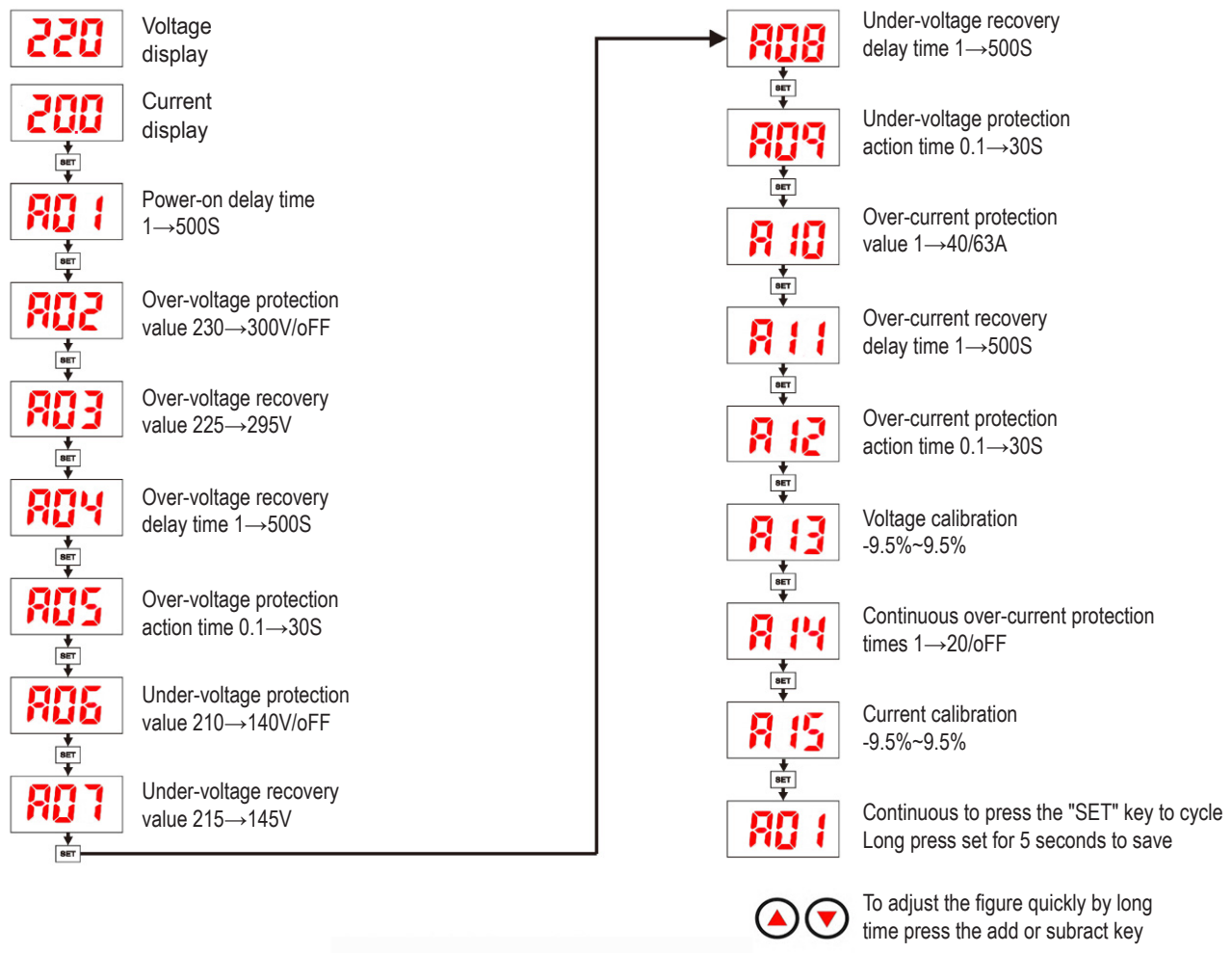


NP2-VA

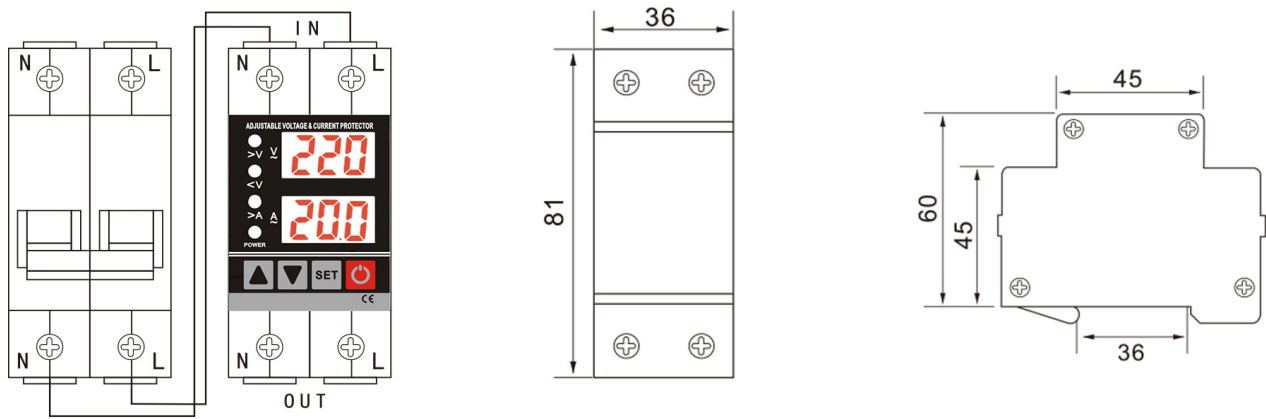
Default setting

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

Function Setting



Wiring and shape dimensions



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 ⁵
Mechanical life	10 ⁶	Protection Degvree	IP20
Pollution Degree	3	Altitude	≤2000m
Operating temperature	-50℃ ~ 55℃	Humidity	≤50%at40℃ (without condensation)
Storage temperature	-30℃ ~ 70℃		

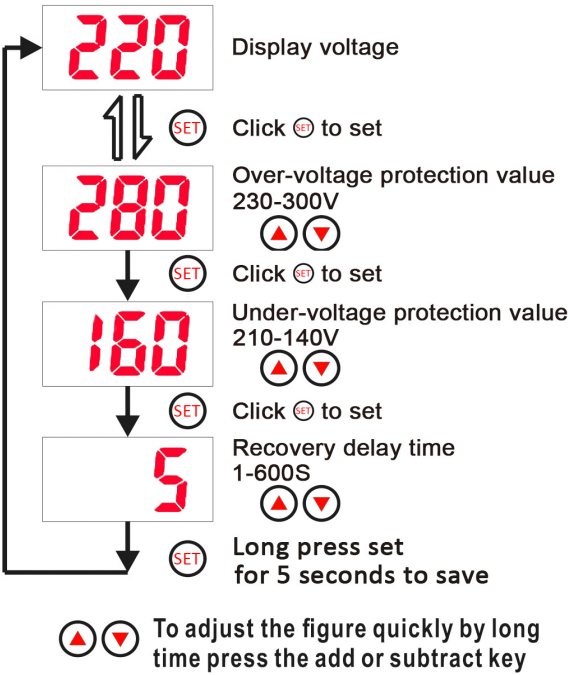


NP2-V

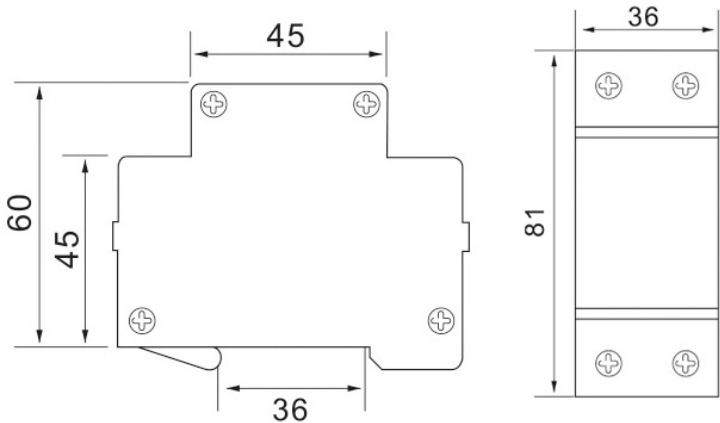
Default Setting

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



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 ⁵	Mechanical life	10 ⁶
Protection Degvree	IP20	Pollution Degree	3
Altitude	≤2000m	Operatintg temperature	-50℃ ~ 55℃
Humidity	≤50%at40℃ (without condensation)	Storage temperature	-30℃ ~ 70℃

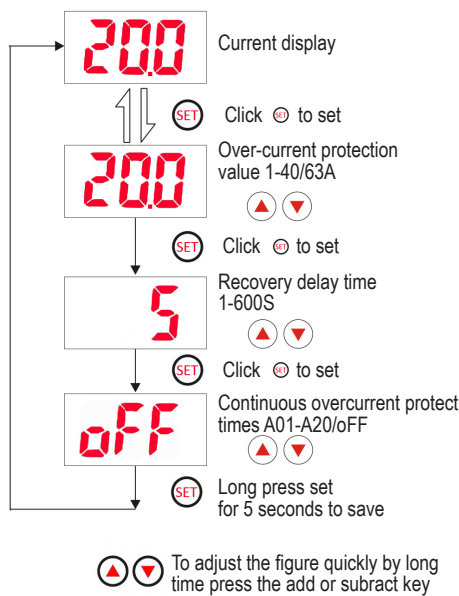


NP2-A

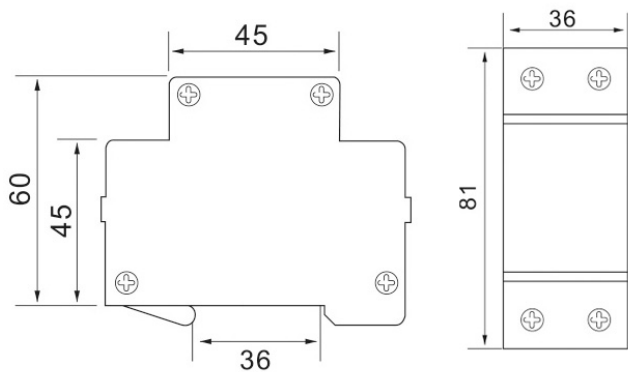
Default Setting

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

Function Setting



Wiring and shape dimensions



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 ⁵
Mechanical life	10 ⁶	Protection Degvree	IP20
Pollution Degree	3	Altitude	≤2000m
Operating temperature	-50℃ ~ 55℃	Humidity	≤50%at40℃ (without condensation)
Storage temperature	-30℃~70℃		



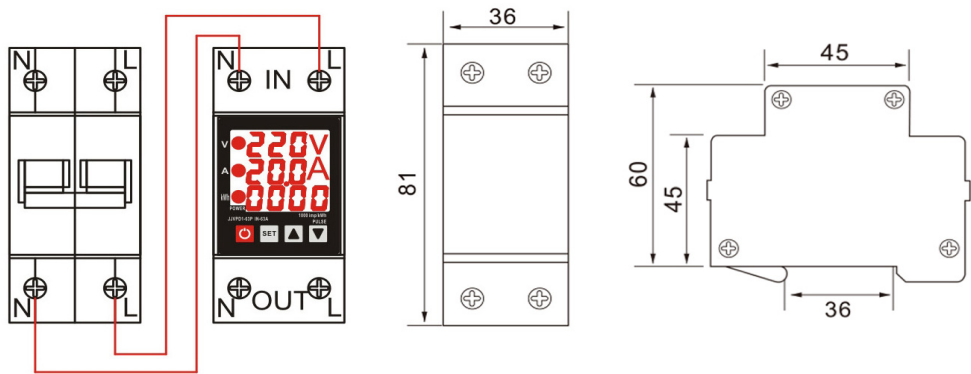
NP2-VAKWH

Default setting

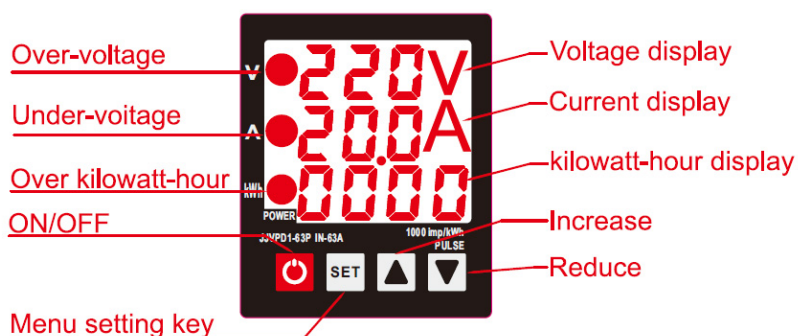
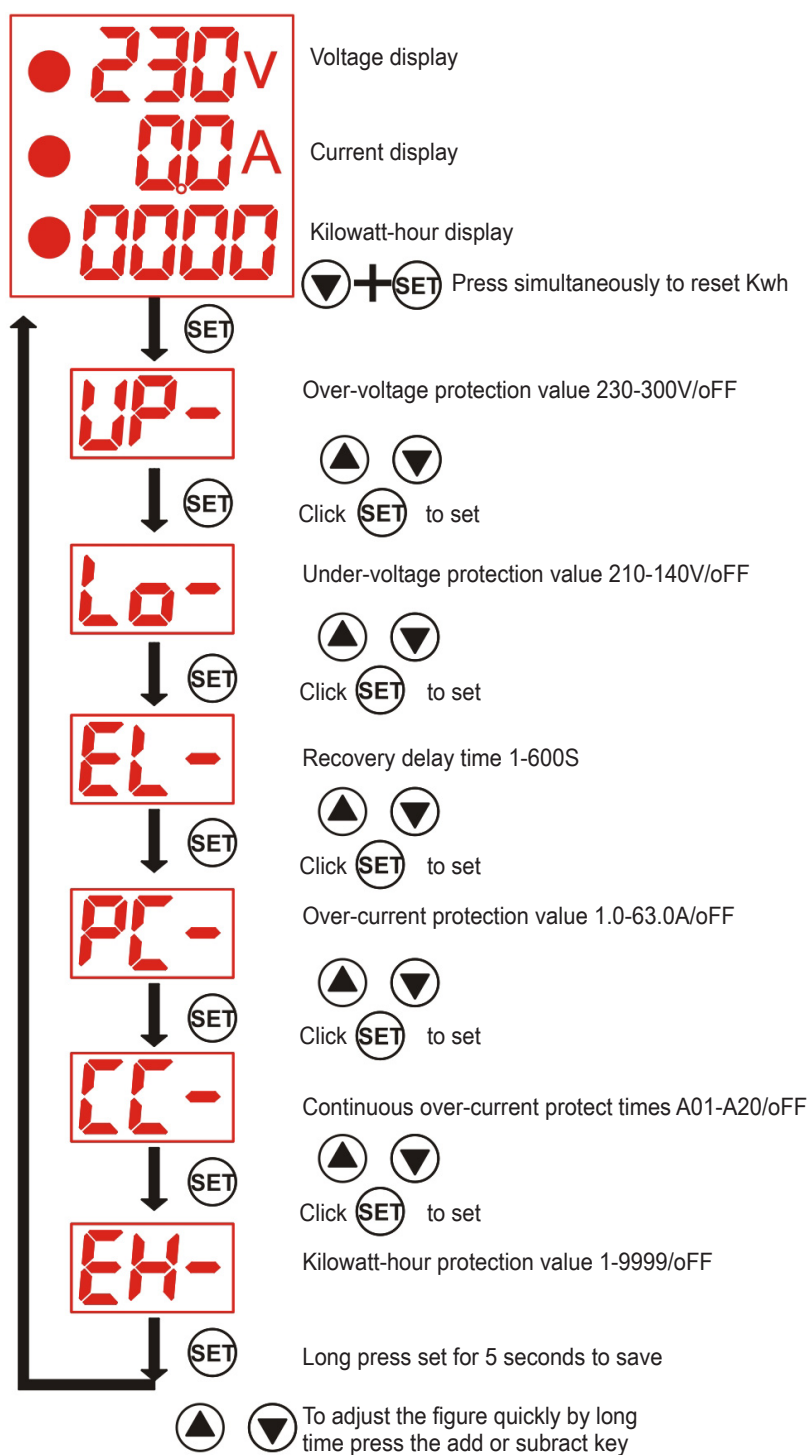
Technical Parameter	Setting range	Step	Factory Setting
Over-Current protection value	AC230V-300V/oFF	1V	AC280V
Under-voltage protection value	AC210V-140V/oFF	1V	AC160V
Recovery delay time	1S-600S	1S	5S
Over-current protection value	1-40/63A/oFF	0.1A	63A
Continuous over-current protect times	1-20/OFF	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 I _{max} (A,within 10min)	25	30	40	60	80
Max power of load(KW)	3.6	5.5	7	11	13.9

Wiring and shape dimensions



Function Setting



Technical Data

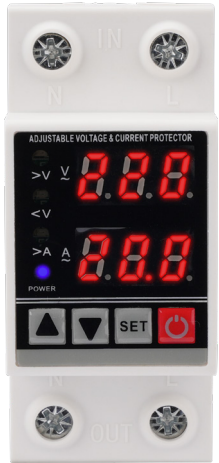
Rated supply voltage	AC 220V	Operation voltage range	AC 80V~400V(single phase)
Rated frequency	50/60Hz	Electric current(>A) setting range	1~40/63A
Overvoltage(>U)setting Range	230~300V	Undervoltage(>U)setting Range	210~140V
Rated Current	40/63A(subject to protect label)	>U And <U Trip Delay	0.1~30S
Reset/Start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



NP3-VA

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

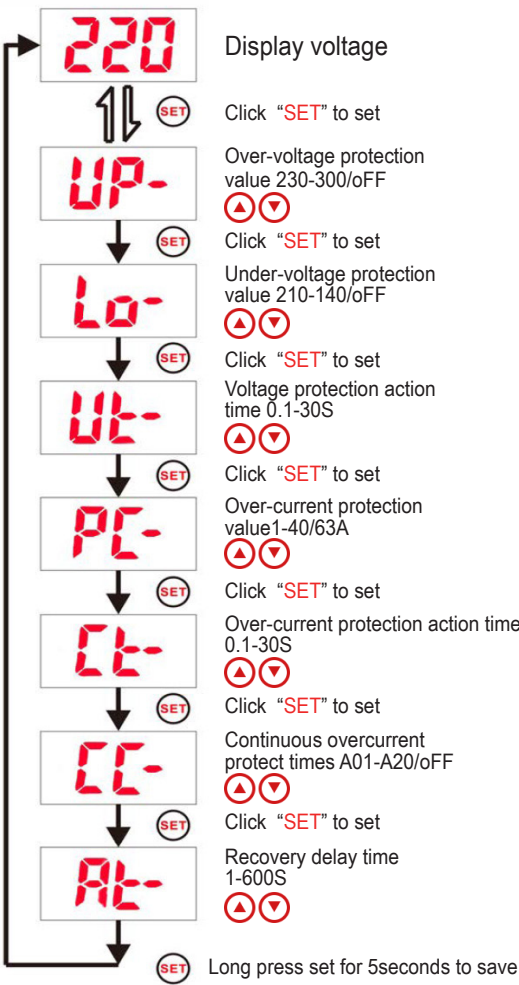


NP3-VA

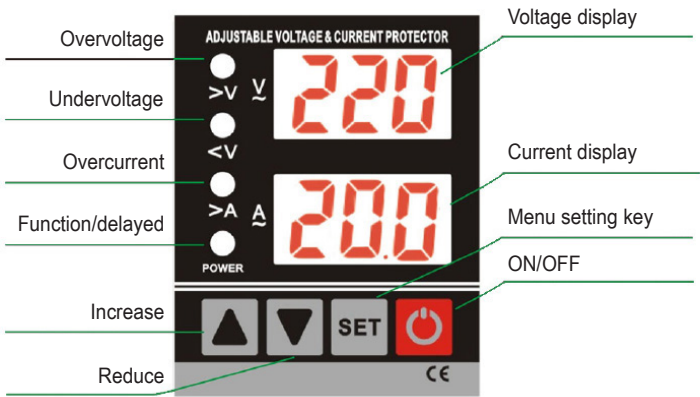
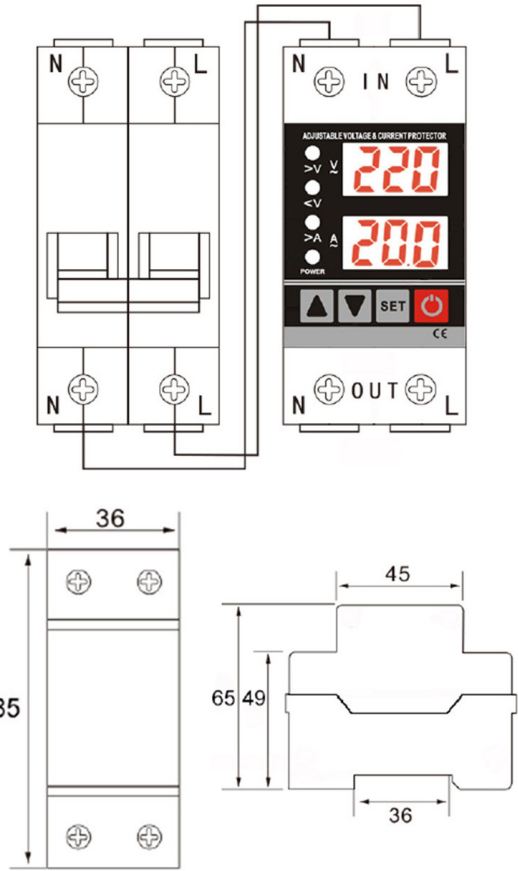
Current Specification	15A	25A	32A	40A	50A	63A
Rated Operating current(In,A)	15	25	32	40	50	63
Max Operating Current I _{max} (A,within 10min)	25	30	40	50	60	80
Max power of load(KW)	3.6	5.5	7	8.8	11	13.9

Function Setting

Wiring and shape dimensions



▲▼ 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	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 ⁵
Mechanical life	10 ⁶	Protection Degvree	IP20
Pollution Degree	3	Altitude	≤2000m
Operating temperature	-50℃ ~ 55℃	Humidity	≤50%at40℃ (without condensation)
Storage temperature	-30℃ ~ 70℃		



NP3-V

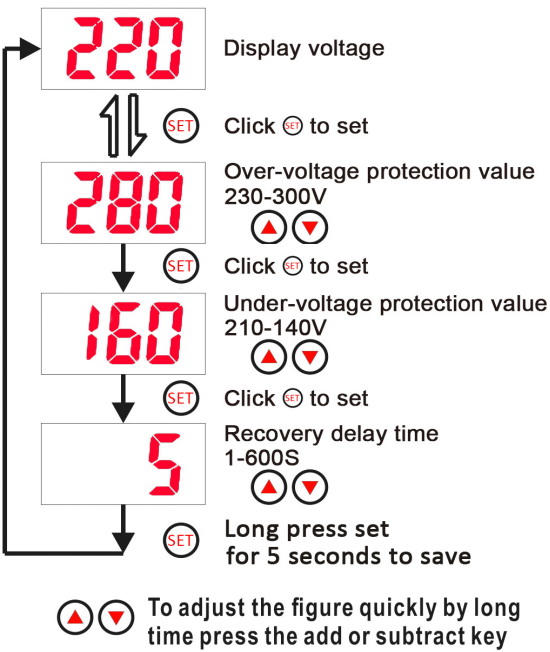
Default Setting

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

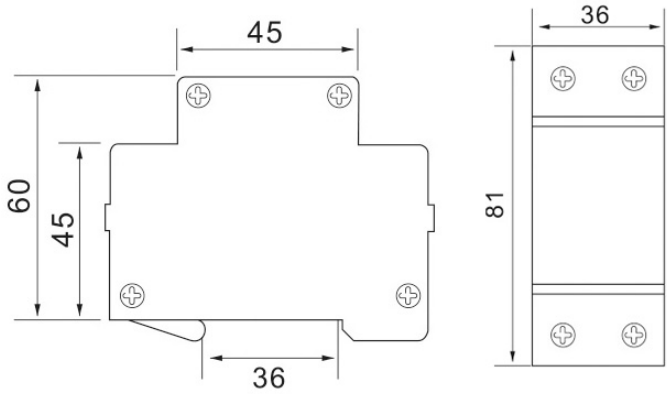


NP3-V

Function Setting



Wiring and shape dimensions



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 ⁵	Mechanical life	10 ⁶
Protection Degvree	IP20	Pollution Degree	3
Altitude	≤2000m	Operatintg temperature	-50℃ ~ 55℃
Humidity	≤50%at40℃ (without condensation)	Storage temperature	-30℃ ~ 70℃



NP3-A

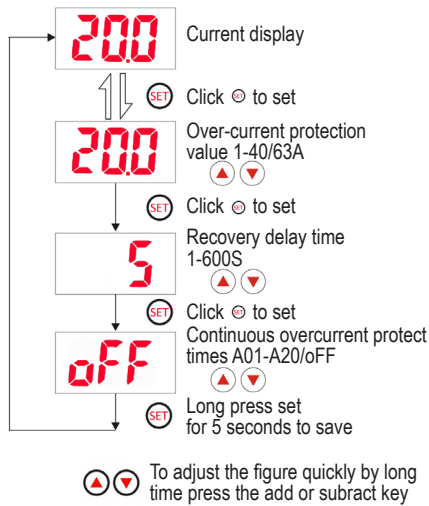
Default Setting

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

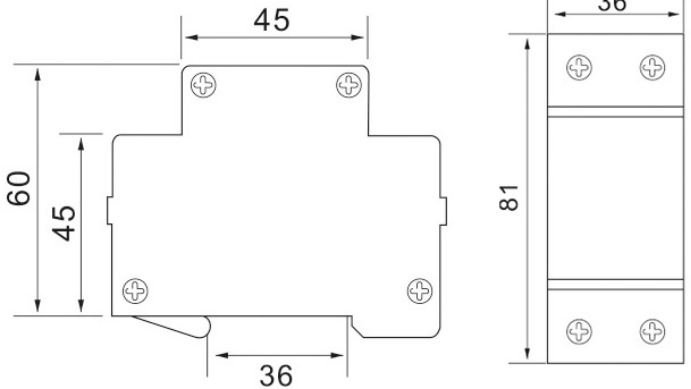


NP3-A

Function Setting



Wiring and shape dimensions



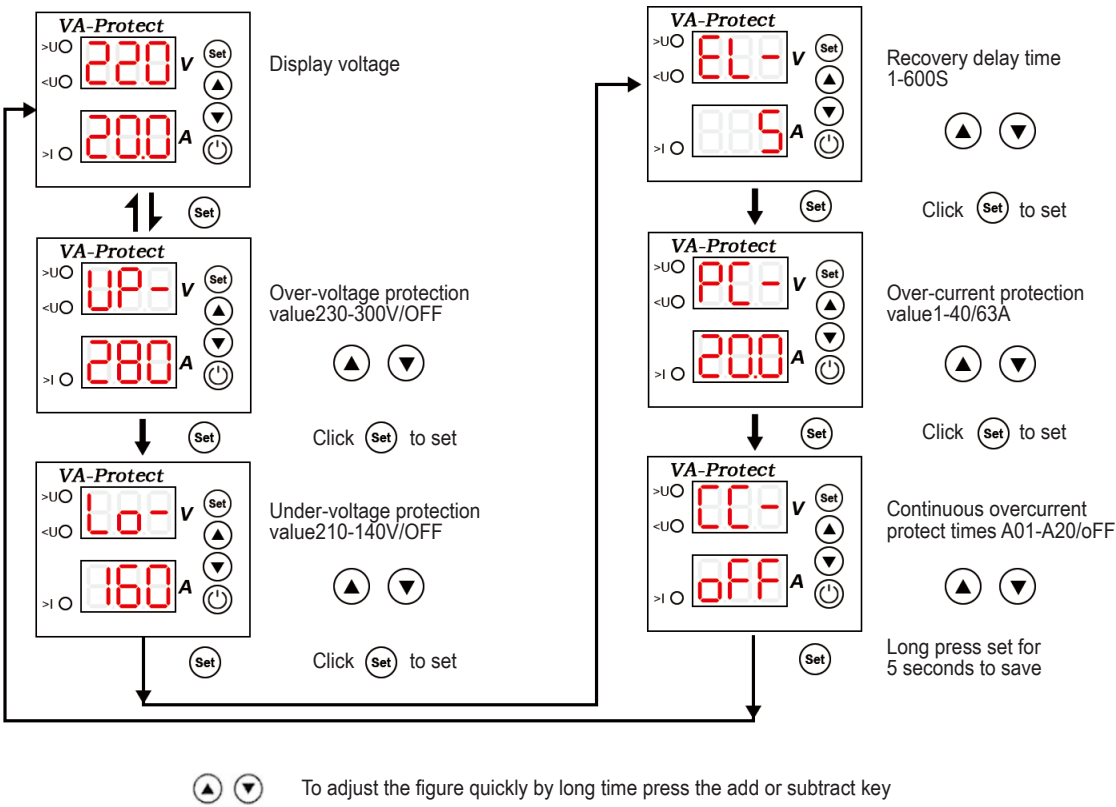
Technical Data

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 ⁵	Mechanical life	10 ⁶
Protection Degvree	IP20	Pollution Degree	3
Altitude	≤2000m	Operatintg temperature	-50 ℃ ~ 55 ℃
Humidity	≤50%at40 ℃ (without condensation)	Storage temperature	-30 ℃ ~ 70 ℃



NP4-VA

Function Setting



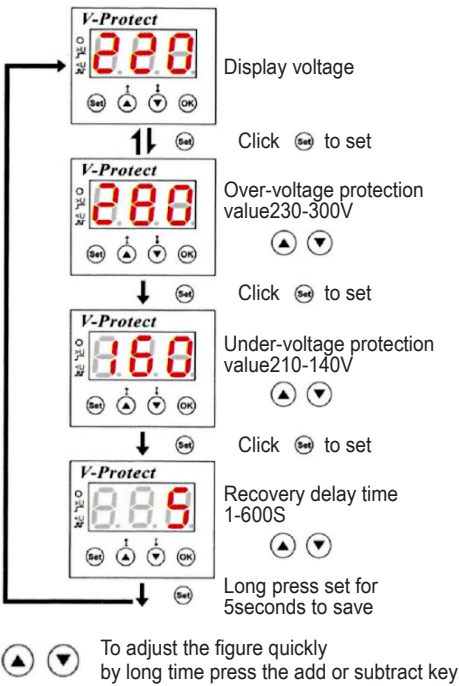
Technical Data

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 ⁵	Mechanical life	10 ⁶
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

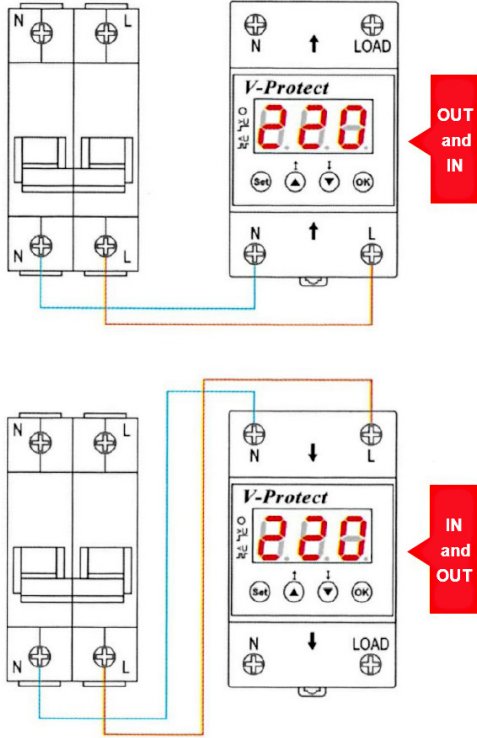


NP4-V

Function Setting



Wiring and shape dimensions



NP4-V

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 Accurcy	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 Tamperature	-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 I _{max} (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

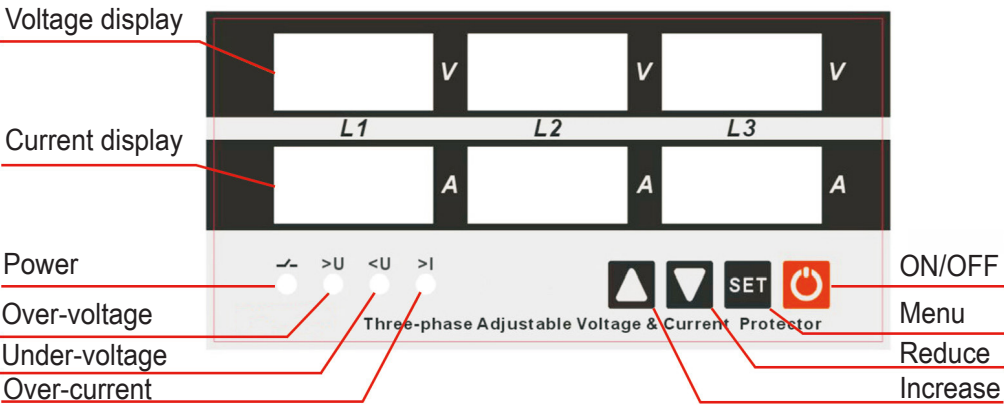
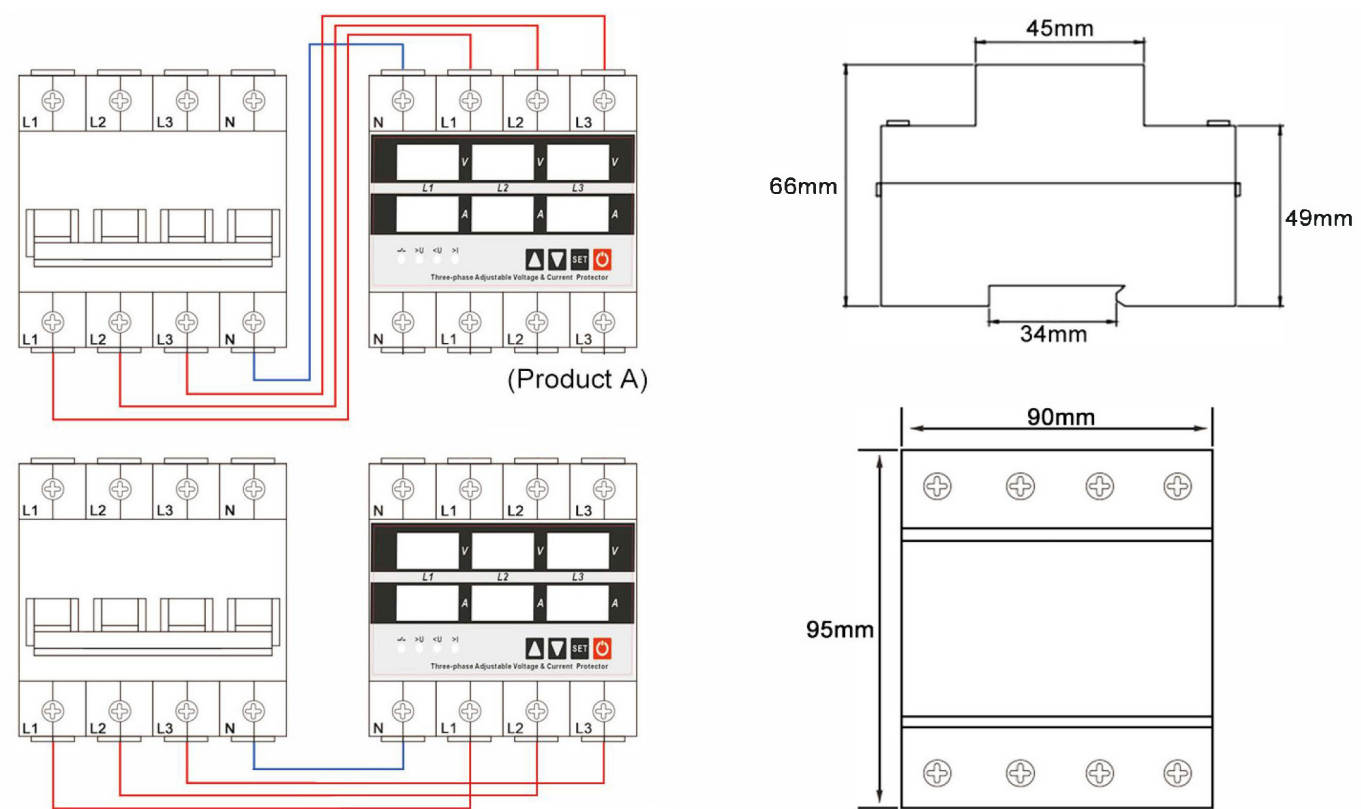


NP5-VA



NP5-VA

Wiring and shape dimensions:



Function Setting

220 220 220 Display voltage
200 200 200 Display current

SET
P-1 Power-on delay time
10 1→500S
SET
U-1 Over-voltage protection value
230→300V(220V)
270 390→500V(380V)
SET
U-2 Over-voltage recovery value
225→295V(220V)
265 385→495V(380V)
SET
U-3 Over-voltage recovery delay time
30 1→500S
SET
U-4 Over-voltage protection action time
10 0.1→30S
SET
U-5 Under-voltage protection value
210→140V(220V)
170 370→260V(380V)
SET
U-6 Under-voltage recovery value
215→145V(220V)
175 375→265V(380V)
SET
U-7 Under-voltage recovery delay time
30 1→500S
SET
U-8 Under-voltage protection action time
10 0.1→30S
SET
U-9 Three phase voltage error value
0 -9.5%→9.5%
SET

U-10 Three phase voltage unbalance value
20 20→99V
SET
U-11 Three phase voltage unbalance recovery value
15 5→94V
SET
U-12 Three phase voltage unbalance protection switch
on oFF/on
SET
U-13 Phase sequence protection switch
on oFF/on
SET
C-1 Over-current protection value
300 1→40A/63A/80A/100A
SET
C-2 Over-current recovery delay time
30 1→500S
SET
C-3 Over-current protection action time
10 0.1→30S
SET
C-4 Three phase current error value
0 -9.5%→9.5%
SET
C-5 Continuous over-current protect times
5 1→20/oFF
LOOP
P-1 Continue to press the SET key to cycle
10 Long press set for 5 seconds to save
To adjust the figure quickly by long time press the add or subtract key

Technical Parameter

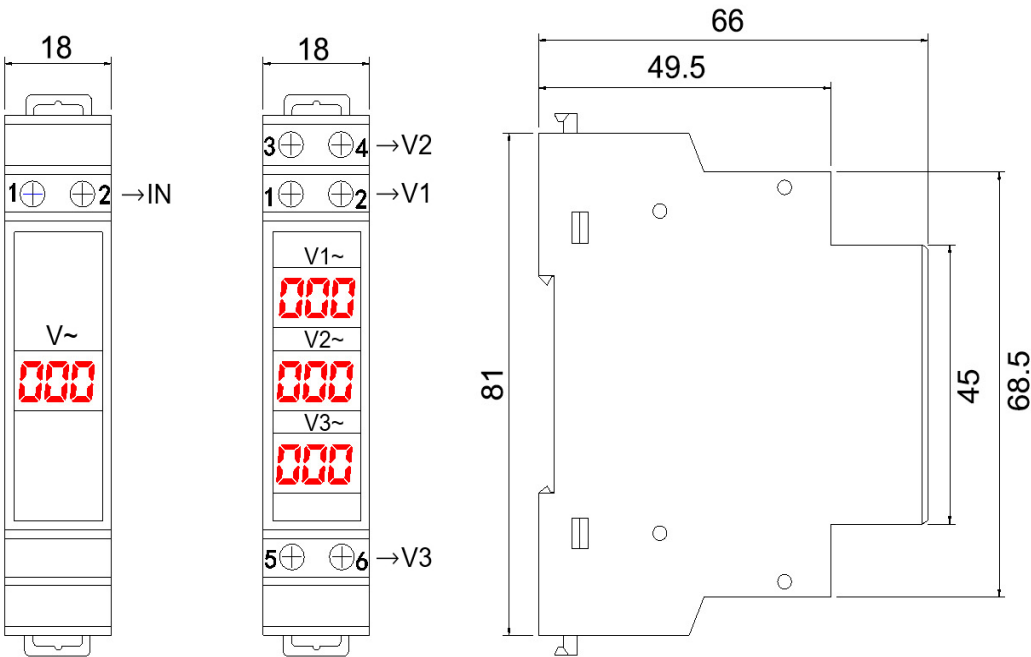
Voltage Display Range	AC 80V-500V
Frequency Range	AC 50~60Hz
Color	Red
Discrepancy Range	± 2%
Rated Insulation Voltage	660V
Sampling Rate	1 time /s
Input loop power consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	- 50~55 C
Humidity	50% and 40°C Condensation free
Storage Temperature	- 30 C ~70 C

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



NV-1P

Product Dimensions



NV-3P

Technical Parameter

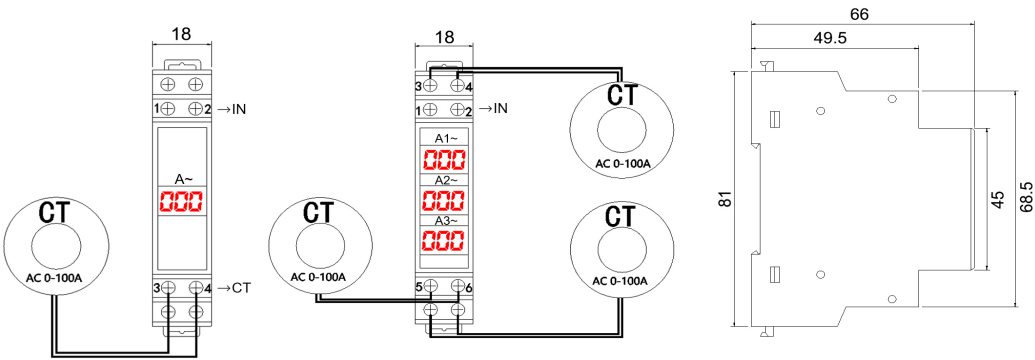
Supply Voltage / Frequency Range	AC 80V-500V / 50-60HZ
Current Range	AC 0-100A
Color	Red
Discrepancy Range	± 2%
Rated Insulation Voltage	660V
Sampling Rate	1 time /s
Input loop power consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	- 50~55 C
Humidity	50% and 40°C Condensation free
Storage Temperature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



NA-1P

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

Product Dimensions



NA-3P

Technical Parameter

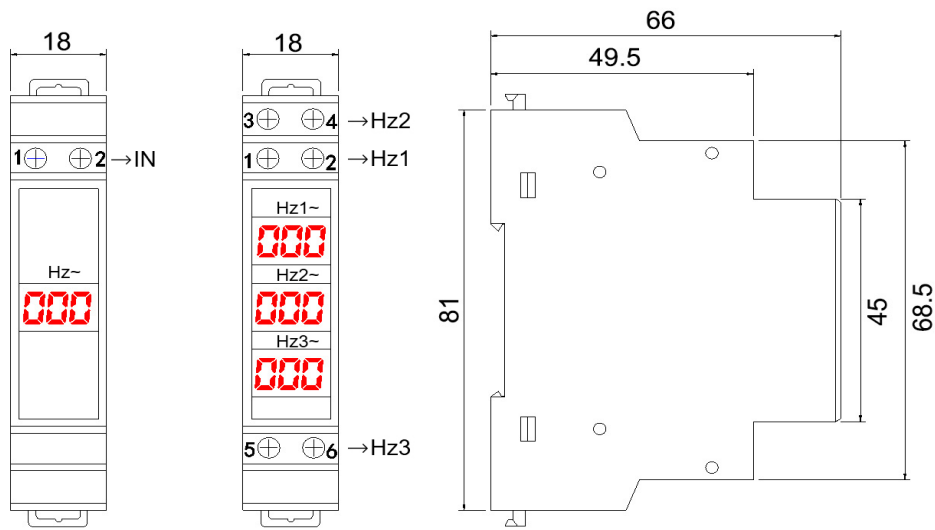
Supply Voltage	AC 80V-500V
Frequency Measurement Range	AC 0~99Hz
Color	Red
Discrepancy Range	± 2%
Rated Insulation Voltage	660V
Sampling Rate	1 time /s
Input loop power consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	- 50~55 ℃
Humidity	50% and 40℃ Condensation free
Storage Temperature	- 30 ℃ ~70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

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



NHz-1P

Product Dimensions



NHz-3P

Technical Parameter

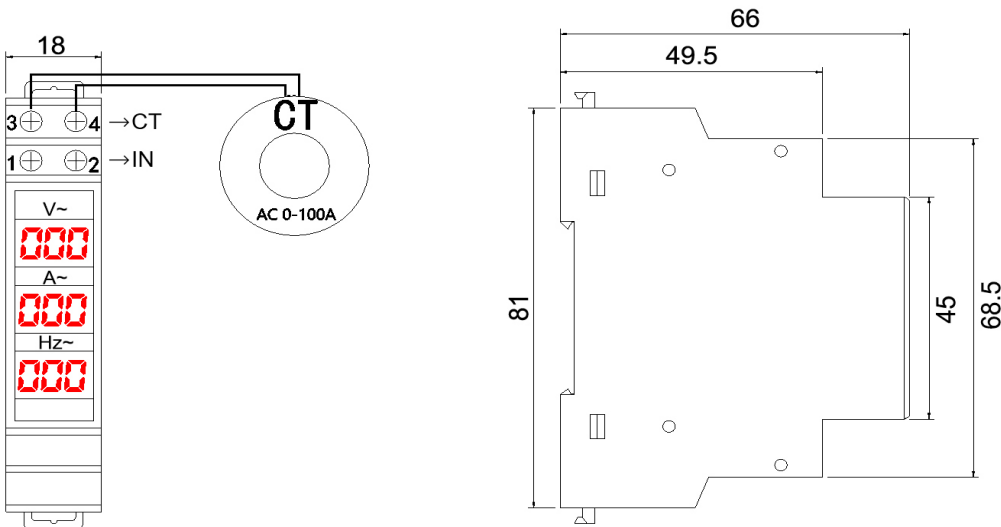
Voltage / Frequency Measurement Range	AC 80V-500V / 0-99Hz
Current Measurement Range	AC 0-100A
Color	Red
Discrepancy Range	± 2%
Rated Insulation Voltage	660V
Sampling Rate	1 time /s
Input loop power consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	- 50~55 ℃
Humidity	50% and 40℃ Condensation free
Storage Temperature	- 30 ℃ ~70 ℃



NVAHz-1P

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

Product Dimensions



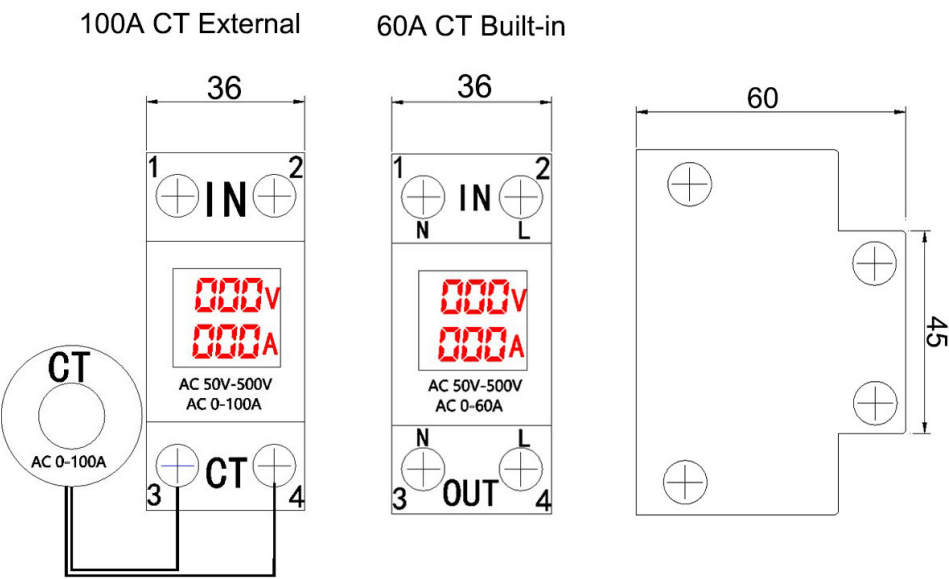
Technical Parameter

Supply Voltage / Frequency Range	AC 50V-500V / 50-60Hz	
Discrepancy Range	± 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	≤ 2000m	
Sample rate	About 1 time/s	
Ambient Temperature	- 50~55℃	
Humidity	50% and 40℃ Condensation free	
Storage Temperature	- 30℃ ~70℃	



NDM1-63

Product Dimensions



NDM1-100

Technical Parameter

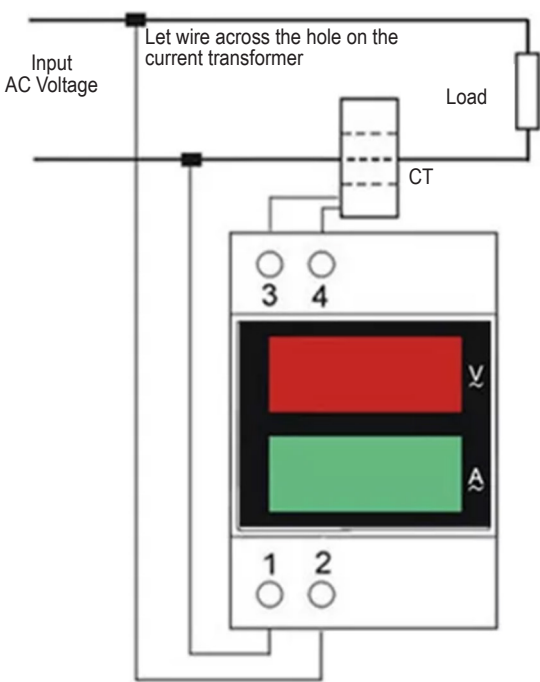
Accuracy	1%
Display mode	0.5 inch LED digital tube
Range	AC voltage : 80~300V, 200~450V (You should select the one of measuring range in your order) AC current: 0.1~99.9A (You should order current transformer when current is higher than 100A independent)
Speed	2 per second
Size	54*80*64 mm
Installation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



N52-2042

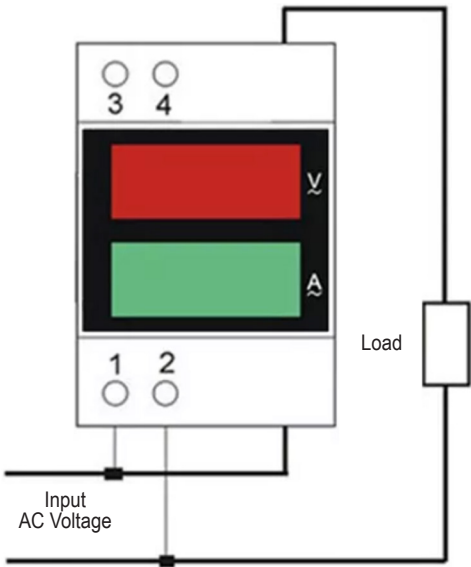
Application Method

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 graph 2, 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

Technical Parameter

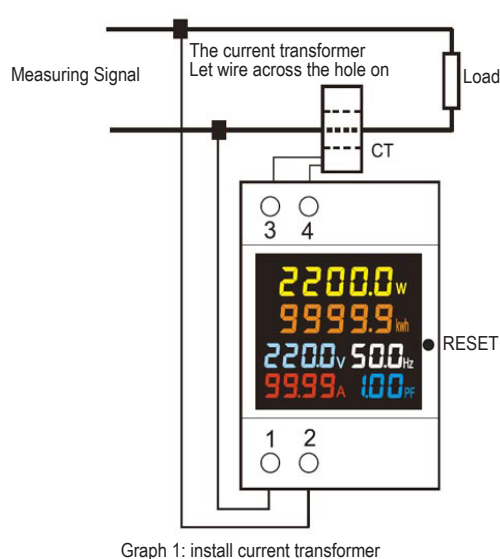
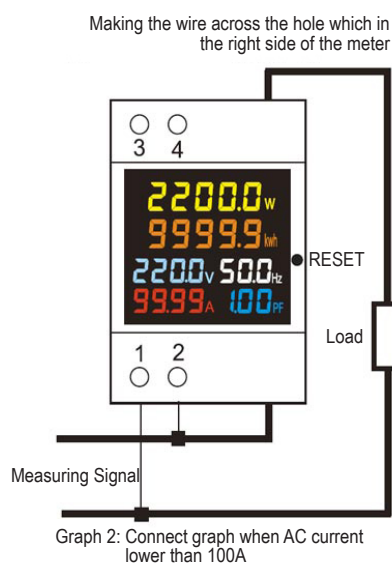
Accuracy	1%±2 words
Range	AC voltage: AC 40.0-300.0V or AC 200.0-450.0V(You should select one type of the meter in your order)
	AC current: 0.1~99.9A (You should order current transformer when current is higher than 100A independent)
	Frequency:45.0Hz-65.0Hz
	Power Factor:0.00-1.00PF
	Electric Power:0-450000W,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



N52-2066

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

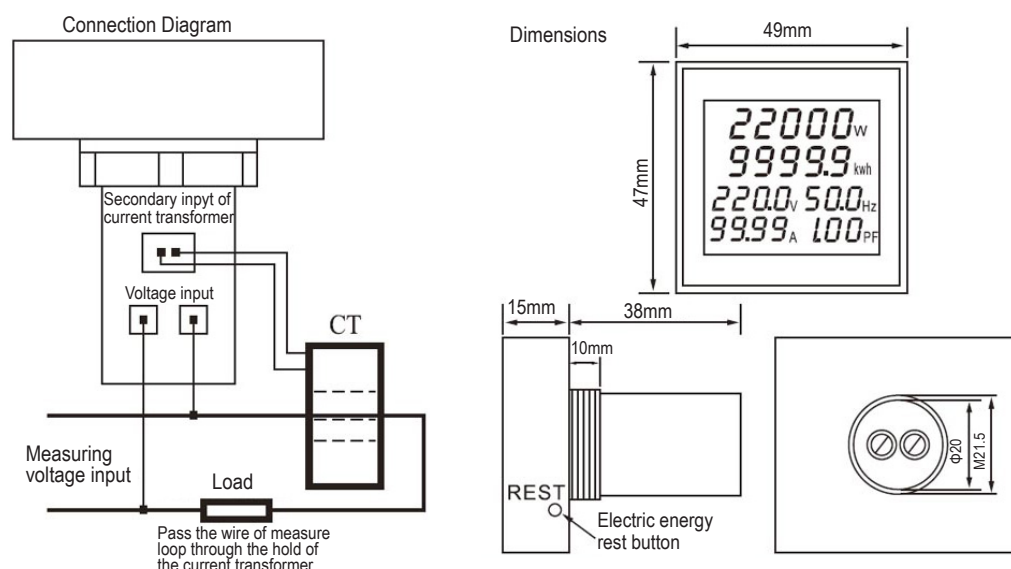
Accuracy	1%
Display mode	0.5 inch LED digital tube
Range	AC voltage : 80~300V, 200~450V (You should select the one of measuring range in your order) AC current: 0.1~99.9A (You should order current transformer when current is higher than 100A independent)
Speed	2 per second
Size	54*80*64 mm
Installation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



N48-2058

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.



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.