

PRELIMINARY DATASHEET



Features :

- Switching topology : PWM based IGBT switching
- Fault correction time : 20msec
- Chopping frequency : 16 to 20 kHz
- Auto/ Manual bypass switch
- LED indications : Overload, Overvoltage, Undervoltage, Overcurrent
- Parallel connection of equipments up to product power ratings
- Mitigate voltage sags in accordance to IEC 61000-4-11 standards
- No battery or any other storage components required

Input specification

| | |
|---|-----------------------------|
| Nominal input voltage | 230V AC |
| Input voltage range | 180 - 280V AC |
| Operating frequency | 47-65 Hz |
| Maximum rated input current | 56A |
| Input MCB rating | 63A, 1 Pole, MCB |
| Input connection | Terminal block [R, N and E] |
| Input wire size | 10 sq.mm (AWG 8) |
| Relaxed operating voltage for $\pm 10\%$ compensation | 160 - 300V AC |

Performance

| | |
|---|---|
| Eliminates voltage sags | Upto 50V (22% considering 230V nominal) |
| Swell compensation | Upto 50V (20% considering 230V nominal) |
| Compensation irrespective of phase | Yes |
| Cooling method | Fan cooling |
| Compensation of depth & long disturbances | Continuous correction possible (24x7) |

Output specification

| | |
|------------------------------|--|
| Nominal output voltage | 230V AC |
| Output voltage range | 220 - 230 - 240V AC |
| Power Efficiency | Typically over 97% (with 20 to 100% load conditions) |
| Correction initiation | Less than 20 msec |
| Technology | PWM based IGBT switching |
| Maximum rated output current | 44A |
| Voltage compensation | Up to 50V |
| Voltage regulation | $\pm 1\%$ |
| Output connection | Terminal block [L, N and E] |
| Load Bypass | Auto/ Manual |

Display option

| | |
|-----------------------|--|
| 7 Segment LED display | Regular input and output |
| Bar graph LED | Load indication with resolution of 10% |
| LED indication | Overload, Overvoltage, Undervoltage, Overcurrent |
| Buzzer indication | Power on, overload, overvoltage, Undervoltage, overcurrent, over temperature |

Power specifications

| | |
|-------------------|-------|
| Capacity in kVA | 10kVA |
| Power consumption | 100VA |

Mechanical properties

| | |
|--------------------|------------------------------|
| Dimensions (In mm) | --- |
| Weight | --- |
| Mounting | 4 High Quality Castor wheels |

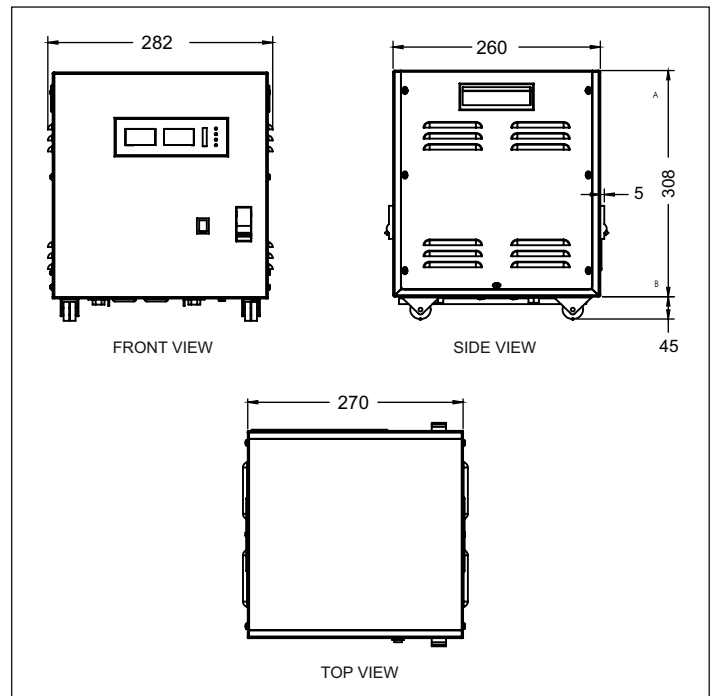
Protection functions

| | |
|-------------------|---|
| Input protection | Line overcurrent, overvoltage, undervoltage |
| Output protection | Overload, Over current trip |

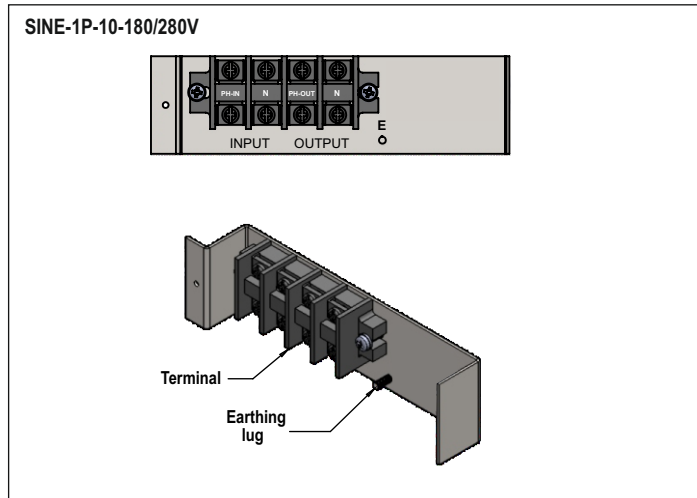
Environment conditions

| | |
|------------------|---------------------------------------|
| Ambient temp. | 0 - 50°C, 10 to 90% RH non-condensing |
| Protection class | IP20 |

Dimensions (All are in mm)



Terminal connections



Ordering information

| Product code | Certification |
|---------------------|---------------|
| SINE-1P-10-180/280V | --- |

