

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
- 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	27A
Input MCB rating	40A, 1 Pole, MCB
Input connection	Terminal block [R, N and E]
Input wire size	4 sq.mm (AWG 12)
Relaxed operating voltage for ±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	22A
Voltage compensation	Up to 50V
Voltage regulation	±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	5kVA
Power consumption	100VA

### Mechanical properties

Dimensions (In mm)	282(W) x 338(H) x 260(D) mm
Weight	23 kg approx
Mounting	4 High Quality Castor wheels

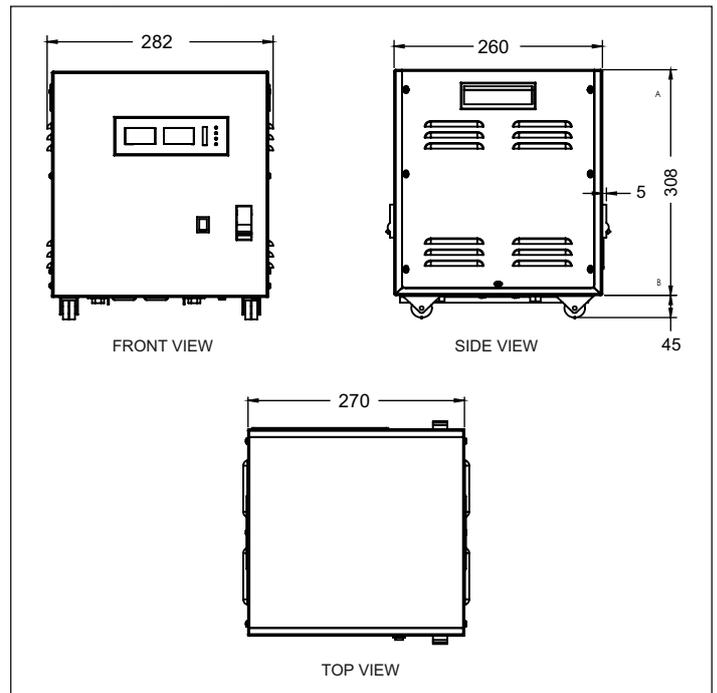
### Protection functions

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

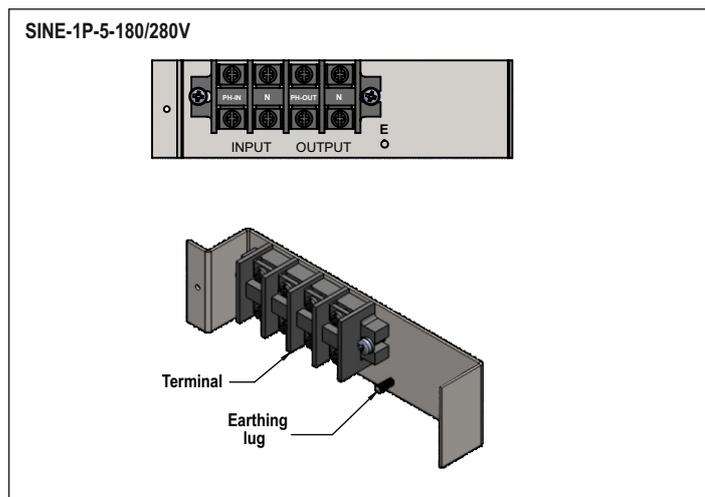
### Environment conditions

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-5-180/280V	---

