

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	14A
Input MCB rating	20A, 1 Pole, MCB
Input connection	Terminal block [R, N and E]
Input wire size	4 sq.mm (AWG 12)
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	11A
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	2.5kVA
Power consumption	100VA

Mechanical properties

Dimensions (In mm)	282(W) x 338(H) x 260(D) mm
Weight	18 kg approx
Mounting	4 High Quality Castor wheels

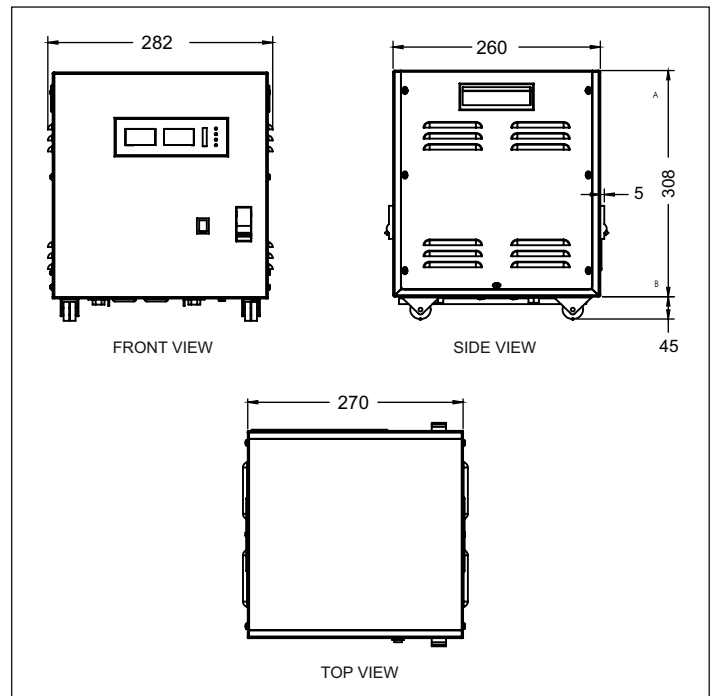
Protection functions

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

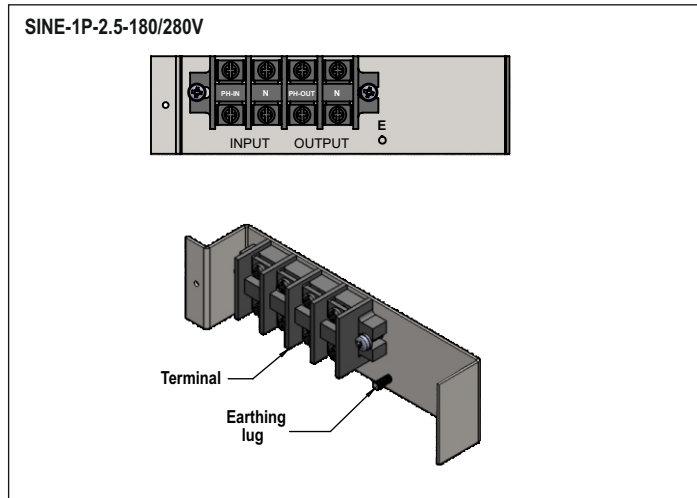
Environment conditions

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-2.5-180/280V	---

