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	42A
Input MCB rating	50A, 1 Pole, MCB
Input connection	Terminal block [R, N and E]
Input wire size	6 sq.mm (AWG 10)
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	33A
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	7.5kVA
Power consumption	100VA

Mechanical properties

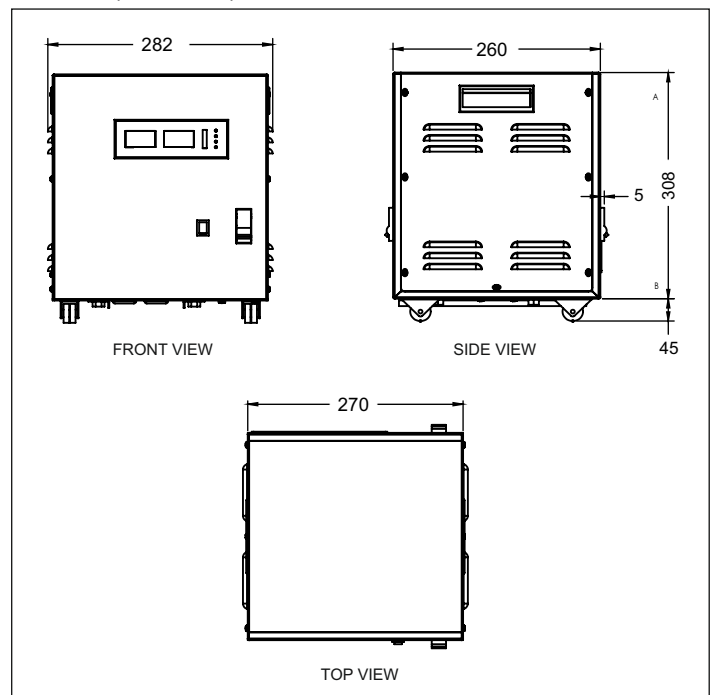|	
Dimensions (In mm)	- - -
Weight	- - -
Mounting	4 High Quality Castor wheels

Protection functions

Input protection	Line overccurrent, 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)

FRONT VIEW

SIDE VIEW

TOP VIEW

Terminal connections
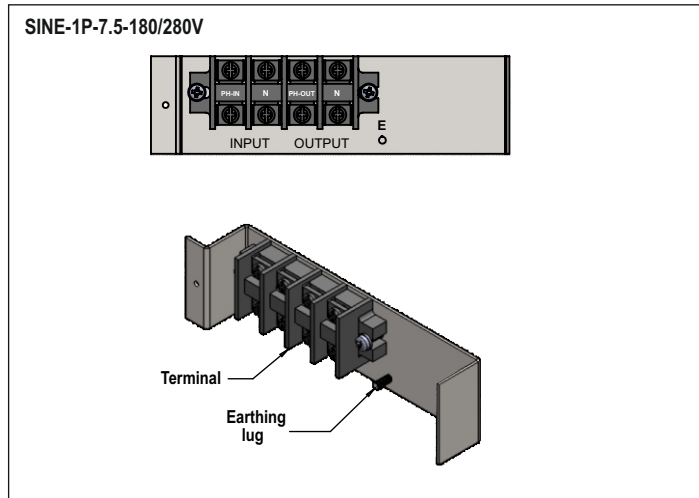
SINE-1P-7.5-180/280V

Ordering information

Product code	Certification	
SINE-1P-7.5-180/280V	- - -	2

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SINE - 1P - 7.5 - 180 / 280V
                          → Input Voltage Range
                     → 7.5kVA
              → Single Phase
       → Static Voltage Regulator
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