

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	400V AC
Input voltage range	320 - 480V
Operating frequency	47-65 Hz
Maximum rated input current	42A
Input MCB rating	50A, 3 Pole, MCB
Input connection	Terminal block [R, Y, B, N and E]
Input wire size	10 sq.mm (AWG 8)
Relaxed operating voltage for $\pm 10\%$ compensation	277 - 520V AC

Performance

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

Output specification

Nominal output voltage	400V AC
Output voltage range	400V AC Ph-Ph and 220-230-240V Ph-Neutral (Selectable)
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 per phase
Voltage compensation	Up to 50V
Voltage regulation	$\pm 1\%$
Output connection	Terminal block [L1, L2, L3, 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

Power specifications

Capacity in kVA	22.5kVA
Power consumption	300VA

Mechanical properties

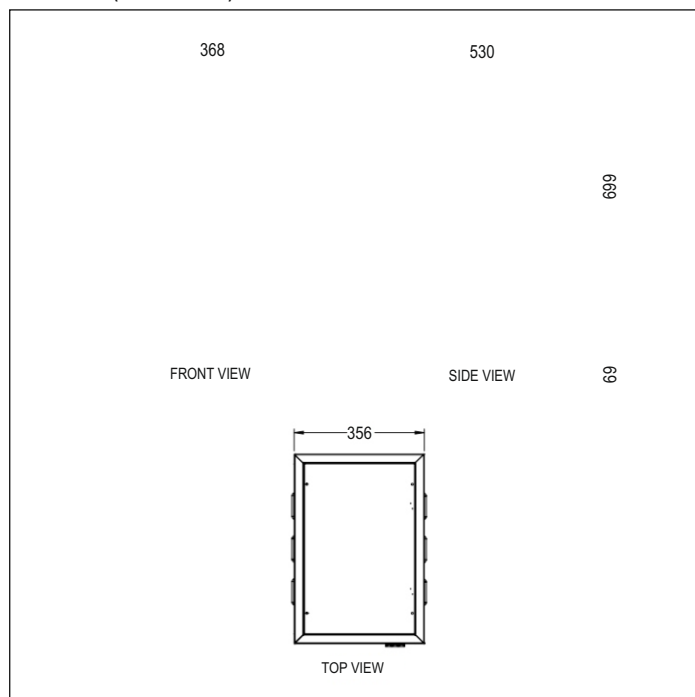
Dimensions (In mm)	643 (H) x 470(W) x 780(D)mm approx.
Weight	100 kg approx.
Mounting	4 High Quality Castor wheels

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

SINE-3P-22.5-340-480V

Diagram showing the terminal connections for the SINE-3P-22.5-340-480V regulator. The input terminals are labeled R, Y, B, N and the output terminals are labeled L1, L2, L3, N. An earthing lug (E) is located between the input and output terminal blocks.

ISOMETRIC VIEW

INPUT TERMINAL

EARTHING LUG

OUTPUT TERMINAL

Ordering information

Product code	Certification
SINE-3P-22.5-340/480V	- - -

SINE - 3P - 22.5 - 340 / 480V

- Input Voltage Range
- 22.5kVA
- Three Phase
- Static Voltage Regulator