

**SPECIFICATION FOR MICRO CONTROLLER BASED DIGITAL SERVO VOLTAGE STABILIZER
(1 KVA, 2 KVA, 3KVA, 5KVA, 7.5KVA, 10KVA, 15KVA, 20KVA & 25KVA/1Phase AIR COOLED)**

1	Purpose	To receive a fluctuation, unbalanced AC Voltage of large amplitude & deliver distortion less, constant output voltage within band of +/-1%
2	Rating	1 KVA, 2 KVA, 3KVA, 5KVA, 7.5KVA, 10KVA, 15KVA, 20KVA & 25KVA /1Phase
3	Equipment conforms to	IS 9815
4	Usage	Suitable for Unbalanced Input Voltages and Unbalanced Output Loads.
5	Duty Cycle	Continuous
6	Degree of protection	IP 65
7	Cooling	Air cooled
8	Heat dissipation	80Degree
9	Insulation	Class 'B'
10	Input	170-270V
11	Output	230V +/-1%
12	Frequency Variation	49 Hz to 52Hz
13	Operating Temperature	5 deg C to 45 deg C
14	Efficiency	Better than 98%
15	Speed of correction	35V/Sec
16	Response time	10msec
17	Losses across the device	No Load losses <1% and Load losses < 4% max
18	Overload capacity	110% Continuous, 125% for 3 to 5 Sec, 300% momentary
19	Output Distortion	Nil
20	Correction Methodology	Servo Motor
21	Control Circuit	Micro Controlled based Digital Circuit
22	Metering	<ul style="list-style-type: none"> ● Digital AC Voltmeter to read Input and output Voltages ● Digital AC Ammeter to read Output Current ● Frequency meter To Read line Frequency
23	Indications	1) Input Voltage 3) Output Load 2) Output Voltage 4) Frequency
24	Protections	<ul style="list-style-type: none"> ● Fuse Protections for Motor ● Input Side MCB protection ● Under Voltage/ Over Voltage Protection ● Electronic Overload and short circuit ● Only From 5KVA to 25KVA Changer Over Switch
25	Programmable Options	<ul style="list-style-type: none"> ● Voltage cut-off settings ● Overload cut-off settings ● ON Delay time settings ● Cut - off delays settings ● Start mode (Auto / Manual) ● Scroll mode (Yes / no) (optional) ● Buzzer (Enable / Disable)(optional) ● Isolation mode(optional) ● Amps display (Enable / Disable)(optional)
26	Cable entry	Rare side Terminal Box
27	Color Shade	RAL 7032 polyester base powder with seven tank system Powder coating of 70/80 Microns thickness
28	Winding Wire	Electrolytic Grade Copper Winding
29	Type of Use	Indoor Floor Mounting