

SPECIFICATION FOR MICRO CONTROLLER BASED DIGITAL SERVO VOLTAGE STABILIZER
(3KVA, 6KVA, 9KVA, 15KVA, 20KVA, 25KVA, 30KVA, 40KVA, 50KVA, 60KVA, 75KVA, 100KVA, 125KVA 150KVA, 200KVA, 250KVA, 300KVA 400KVA, 500KVA, 1000KVA & 2000KVA/3P)
(OIL 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	6KVA, 9KVA, 15KVA, 20KVA, 25KVA, 30KVA, 40KVA, 50KVA, 60KVA, 75KVA,100KVA, 125KVA 150KVA, 200KVA, 250KVA, 300KVA 400KVA, 500KVA, 1000KVA & 2000KVA/3P/3Phase 4 Wire System		
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 61		
7	Cooling	Oil cooled With First filling of Oil		
8	Heat dissipation	80Degree		
9	Insulation	Class 'B'		
10	Input	300-480V/3Phase	340-480V/3Phase	360-460V/3Phase
11	Output	415V+/-1%	415V+/-1%	415V+/-1%
12	Frequency Variation	49-52Hz		
13	Operating Temperature	5 deg C to 45 deg C		
14	Efficiency	Better than 97%		
15	Speed of correction	20V/Sec		
16	Response time	10msec		
17	Losses across the device	No Load & 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	Protection & Metering System	● Class 1.0 digital LCD Type Voltmeter (Both Input and Output) & Frequency meter ● Class 1.0 digital LCD Type Ammeter. ● Single phase and phase reversal prevention. ● High/ Low voltage protection for input and output. ● Overload protection. ● Auto restarts time setting. ● Overload cutoff time setting. ● Voltage cut off time setting.		
23	LED Indications	Input fail - Red LED Phase Reversal Indication (PHR) - Red LED Overload Indication (OVL) - Red LED Output ON - Green LED		
24	Wheels	Unidirectional M.S. Wheels of heavy duty.		
25	Cable entry	Rare side Terminal Box		
26	Color Shade	RAL 7032 polyester base powder with seven tank system Powder coating of 70/80 Microns thickness		
27	Winding Wire	Electrolytic Grade Copper Winding		
28	Oil	Transformer oil strictly as per IS – 335 along with Test Certificate		
29	Enhanced Tank Construction	Our servo voltage stabilizer features a unique Modular Construction design, with an air-tight oil tank housing critical components like dimmers and buck boost transformers, fully immersed in oil for optimal performance. The tank's termination uses high-quality Bakelite & Glass epoxy sheet & supporters for Bus bar, ensuring a dust-free and contaminant-free environment. This modular design enables effortless maintenance, with components assembled on a removable top plate, allowing easy access for carbon brush replacement or repairs without disturbing the dimmer assembly, preserving original factory settings.		
30	Lifting Hooks	10mm Thickness (MS Sheet)		
31	Oil Inlet/Air Breather	Filler breather to fill the oil with Lock Provision		
32	Oil Outlet	¾ “ Drain Valve to be provided along with lock provision to avoid theft of oil		
33	Type	Indoor Type Floor Mounting		