



**Pragati Electrocom Pvt. Ltd.**

**STATIC/SERVO VOLTAGE STABILIZER**

The performance of any electrical/electronic equipment is optimum at its rated voltage. Under voltage reduces efficiency or damage valuable appliances incorporating motor/compressor system (e.g. Refrigerator, Air Conditioner & Computerized Sewing Machine, whereas over voltage may damage electronic equipment/appliances like television computers, CNC Machines, Telecommunications centers, Medical Equipment.

LCU offers complete solution for Power problems through Automatic Voltage Correction, Power Protection & Surge.





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S. No.	PARAMETER	SINGLE PHASE UNIT	THREE PHASE UNIT
1.	Rating	1 KVA to 100 KVA	5 KVA to 1000 KVA
2.	Input Voltage Range	Any Range Within 90-300V	Any Range Within 170-550V
3.	Nominal Output Voltage	230 / 240 V	400 / 415 V
4.	Output Voltage Accuracy	± 1%	± 1%
5.	Line Frequency Variation	47Hz-65Hz	47Hz-65Hz
6.	Effect of Power Factor	None	None
7.	Wave Form Distortion	None added	None added
8.	Control	Digital	Digital
9.	Response Time	10 ms.	10m s.
10.	Voltage Correction Rate	25V / Sec.	25V / Sec
11.	Cooling:	Air Natural / Oil Cooled	Air Natural / Oil Cooled
12.	Efficiency	97%	97%
13.	Optional Features	Available	Available
	Low Case	Available	Available
	<ul style="list-style-type: none"> <li>• Under / Over-Voltage</li> <li>• Over-Load &amp; Short – Circuit</li> <li>• Single Phasing</li> <li>• Phase Reversal</li> </ul>	Not Applicable	Available
		Not Applicable	Available



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PARAMETER		SPECIFICATION	
Type		T T	
		L-N	N-PE
Nominal voltage	$U_N$	230 / 400 V / 50 Hz	
Rated voltage (max. continuous Operating voltage)	$U_c$	275 V / 50 Hz	255 V / 50 Hz
Nom. Discharge current (8/20) $\mu$ s	$i_{sn} (I_n)$	20 kA	
Max. Discharge current (8/20) $\mu$ s	$I_{max}$	40 kA	
Follow current extinguishing Capability at $U_c$	$I_f$		100 A <sub>rms</sub>
Lightning impulse current (10/350) $\mu$ s	$I_{imp}$		12 kA
Voltage protection level at 5 kA (8/20) $\mu$ s at $i_{sn}$	$U_p$	£ 1 kV £ 1.5 kV	
Lightning impulse spark over Voltage 1.2/50 $\mu$ s			£ 1.5 kV
Response time	tA	25 ns	100 ns
Backup fuse (only required, if not already provided in mains)		125 A gL/gG	
Short-circuit withstand capability at max. Backup fuse		50 kA / 50 Hz	
Operating temperature range	$\theta$	-40° C ... + 80° C	
Degree of protection		IP 20	
Approved by		UL, KEMA, VDE	
Test standards		IEC 61643-1:1998-02; EN 61643-11:2001; E DIN VDE 0675-6:1989-11, 6/A1: 1996-03 & - 6/A2: 1996-10	

PRAGATI ELECTROCOM (P) LTD. PLOT No. 184 SECTOR-3, IMT MANESAR, PHASE -I,  
GURGAON-122050, (HARYANA) INDIA

**Telephone:** +91-124-2291480, 2291456, 3255376 FAX: +91-124-2291479

**E-MAIL:** info@pragatielectrocom.com