SERVO CONTROLLED VOLTAGE STABILIZER

SINGLE PHASE
(1 KVA To 20 KVA)

THREE PHASE AIR COOLED
(6 KVA To 100 KVA)

THREE PHASE OIL COOLED
(30 KVA To 500 KVA)

THREE PHASE LINEAR SERVO STABILIZER OIL COOLED
(100 KVA To 2000 KVA)

Why us:

CNC Make | Aesthetic Looks | Better Efficiency | Dual Powder Coated Tank
Flawless Performance | Micro Processor Technology

SERVO STABILIZER

MAIN FEATURES

- **Specialy designed high performance controller based control circuit for ultra high reliability.**
- **All parameter like O/P V, I/P V high,low cutt off, time delay, overload, set by front control panel.**
- **High efficiency ≥ 98 %**
- **Fast correction speed up to 60 V / Sec.variable speed servo motor and proportional control circuit provide a response time of 10msec to correct voltage fluctuations without noise or oscillations in output.**
- **Accuracy ± 1 % from no load to full load**
- **Auto / manual operation facility.**
- **Plug and play single control card for easy serviceability.**
- **Reduced power loss and resultant lower running cost yield higher cost savings and help the customer recover the cost difference in few months.**

TECHNICAL SPECIFICATIONS

Capacity	1 KVA To 20 KVA (single phase)
	6 KVA To 2000 KVA (three phase)
Input voltage range	200 – 480 V, 300 - 480V, 340-480 V AC 3 Ph 50Hz Phase to Phase – THREE PHASE
	110 - 270 , 140 - 270, 170 - 270 V AC 1 Ph 50 Hz – SINGLE PHASE
System	4 wire in three phase
	3 wire in single phase
Input frequency	47 to 53 Hz
Output voltage adjustable	380/400/415 V AC in 3 Phase and 220/230/240 V AC in 1 Phase
Output voltage regulation	± 1% (No Load)
Ambient temperature	0 to 55° C
Output voltage regulation	±1% (Full Load)
Overload capacity	110% of full rated load current with time delay
Correction rate	≤ 80V / Sec
Waveform distortion	True reproduction of Input
Servo motor drive	Rugged AC step synchronous motor
Insulation	Class F
Short circuit period & percentage	300% for 250 Milli Sec. normal
Climate conditions	90% Rh Max. Non condensing at 50° C
Type of cooling	Natural air cooled up to 100 KVA and Oil cooled up to 2000 KVA
Mode of system	Fully automatic / manual
System construction	As per IS : 9815 – 1994
Audio alarm	For tripping conditions
Protection	• Low voltage protection, high voltage protection and single phasing prevention through contactor at O/p. • Over load protection, short circuit protection and power ON/OFF of SCVS though MCB / MCCB at input. • Change over switch at input to bypass the equipment in case of emergency (optional) • .Surge arrester or RF suppressor (optional). • Neutral failure protection (optional) • Earth neutral voltage cut off protection
Display parameter	• Input voltage (line to neutral and line to line) • Output voltage (line to neutral and line to line) • Load current in all phases • History or error log • LED indication for power on and trip bypass

LINEAR SERVO STABILIZER

MAIN FEATURES

- Linear type vertical rolling contact type regulator
- Life span > 20 years
- Warranty 5 year unconditional
- Suitable for continues 100 % duty cycle

ADVANTAGES

- Up to 80% reduction in failure rate of electrical equipment
- Power saving
- Reduction in MDI
- Improvement in power factor
- Uniform quality of end products
- Improver productivity of the plant
- Owing to its high efficiency & associated benefits,
- The pay-back period for the cost Linear servo stabilizers is generally between 6 to 12 months. and it saves you significant costs in subsequent years through its life.

ROLLER TYPE REGULATOR	FLAT CARBON BRUSH REGULATOR
• Power consumption is 0.5 to 1.5% depending upon the input voltage range • Suitable for continuous 100% duty cycle • Life at full load is 15-20 years • Five years unconditional guarantee • Negligible losses in full boost & buck condition	• Power consumption is 2 to 7% under similar conditions • Suitable for only 60 % to 80% duty cycle • Maximum life is 5 -10 years at full load • Normally guarantee for one year • Max. losses in full boost and buck condition

TECHNICAL SPECIFICATIONS

Input voltage	340 - 480, 320 - 480, 300 - 480
Efficiency (approx.)	99.5%, 99%, 98.7%
Output voltage	400 V ±1%, 3 - Phase, 50 Hz
Cooling	Oil cooled
Type	Indoor / outdoor
Temeprature rise (max)	30 degree centigrade above ambient temperature
Mounting	Uni-directional wheels
Correction rate	10 -15 V / Second
Wave form distortion	Virtually nil
Duty cycle	100% Continuous.

PHYSICAL PARAMETERS

SINGLE PHASE SERVO STABILIZER

Capacity (KVA)	1	2	3	5	7.5	10
Dimension W X H X D MM	370 X 410 X 390				445 X 445 X 445	
Weight KG	10	15	20	30	38	45

THREE PHASE SERVO STABILIZER (AIR COOLED)

Capacity (KVA)	6	10	15	20	25	30	45	50	60	75	100
Dimension W X H X D MM	330 X 865 X 440					415 X 930 X 460		400 X 1115 X 670	405 X 1140 X 670		
Weight KG	65	70	80	85	90	130	145	180	225	260	325

THREE PHASE SERVO STABILIZER (OIL COOLED)

Capacity (KVA)	75	100	125	150	200	250	300	400	500
Dimension									
W (mm)	1170	1215	1215	1360	2010	2010	2110	2160	2260
D (mm)	845	1025	1025	1045	1140	1140	1260	1355	1355
H (mm)	540	800	800	1050	1050	1050	1100	1400	1600
Oil Req. Ltr.	180	230	230	290	525	525	625	800	1100

LINEAR SERVO STABILIZER (OIL COOLED)

Capacity (KVA)	100	125	150	200	300	500
Dimension						
W (mm)	1140	1140	1190	1200	1300	1375
D (mm)	1020	1020	1070	1400	1500	1700
H (mm)	1475	1470	1475	1600	1750	1850
Oil Req. Ltr.	375	375	450	575	750	1000

RANGE OF PRODUCTS :

- ONLINE UPS (SINGLE PHASE & THREE PHASE)
- CVT
- ELECTROPLATING RECTIFIER (200 TO 2000 AMP)
- ISOLATION TRANSFORMER (SINGLE PHASE & THREE PHASE)
- DC POWERSUPPLY
- LIFT INVERTER