



Covai Power Solutions®

(Power Division)



Servo Controlled Voltage Stabilizer

Features :



Voltage Adjustments with High Efficiency

Under stern instances of imbalanced voltage or current, it produces a fully stable output.



Surge Protector

Equipped with a surge suppressing device to protect electronic equipment against voltage spikes occurring inside the alternating current (AC) utility lines.



Cost-Effective Power

Comes with a rating that ranges between 10KVA to 1000KVA that promises stable power supply at minimal costs.



Adjustable Output Voltage

Engineered with an option to adjust fluctuating voltage outputs, the device helps in reducing the failure rate of electrical equipment.



Improved Operational Life

The device has a long lifespan even when used at full loads in comparison to conventional make servo voltage stabilizers.



AIR COOLED SERVO STABILIZER

CPS Air-cooled Servo Stabilizer is a device with three-phase air cooling available with capacities ranging up to 250kVA. This environment-friendly, cost-effective device offers an efficiency of >95%.



OIL COOLED SERVO STABILIZER

CPS Oil-cooled Servo Stabilizers change the level of voltage in a clockwise or anticlockwise manner using a strong AC synchronous motor for precise voltage management. These three-phase stabilizers have a long-lasting motor-controlled stabilization technology that ensures safe voltage delivery.

TECHNICAL PARAMETERS Rating: 2 kva to 2000 kva	SINGLE PHASE 2 KVA to 60 KVA	THREE PHASE 10 KVA to 2000 KVA	CUSTOMIZED
Input Voltage Range	195 V-280 V AC	340 V-480 V AC	As per client requirement
	170 V-280 V AC	300 V-480 V AC	
	155 V-280 V AC	270 V-480 V AC	
	140 V-280 V AC	240 V-480 V AC	
	110 V-280 V AC	190 V-480 V AC	
	100 V-280 V AC	175 V-480 V AC	
Output Voltage	230 V	400V	Yes
Output Adjustable	220-240 V AC)	380-415 V AC	Yes
Output Regulations	± 2%	±2%	Yes
Type	Unbalanced Type		Yes
Insulation	Class A/Class B		Yes
Vector Group	Star/Star, 3 Phase + Neutral		Yes
Frequency Hz	47 Hz-53 Hz		Yes
Nature of Cooling	Air Cooled Servo Stabilizer		Yes
	Oil Cooled Servo Stabilizer		Optional
Construction	Variable Auto Transformer + Buck Boost Transformer + Servo Motor		Yes
Effect of Power Factor	Nil		Yes
Wave Form Distortion	Nil		Yes
Control Circuit	Micro Controller Based Digital Circuit and Control		Yes
Response Time	10 ms or As per IS 9815 Standards		Yes
Voltage Correction Rate for Air Cooled Servo Stabilizer	15-20 Volts/Sec		Yes
Voltage Correction Rate for Oil Cooled Servo Stabilizer	8-12 Volts/Sec		Yes
Metering	Seven Segment Display		Yes
General Efficiency of our	Better than 95% or As per IS 9815 Standards		Yes
Servo Stabilizer	0-55 Degree C		Yes
Ambient Temperature	Under/Over Voltage Cut off Protection		Yes
Protection	Single Phase Prevention		Yes
Optional Protection	Overload/Short Circuit Protection		Optional
	Manual Bypass - Changeover		External in Higher Capacity
	Input MCB/MCCB		Optional
Installation Type	Indoor		Yes
	Outdoor		Optional



Our Products :

- Isolation Transformers
- Control Transformers
- VFD Drive Input / Output Chokes
- Servo Controlled Voltage Stabilizers
- Auto Transformers
- APFC Harmonic Reactors
- LT Current Transformers
- Resin Cast Current Transformers
- Dynamic Breaking Resistors (DBR)
- Harmonic Study & Analysis
- HT Current Transformers
- Shunt Reactors

Transformers



Isolation Transformer	
T Rated power	: 50VA to 20KVA(1Ph)/ 2KVA to 1000KVA (3Ph)
Ref. std.	: IEC-60076
Type of cooling	: AN/ ANAF
Configuration	: Dyn-11 (or as per your specification)
Type of winding	: Copper/ Aluminium
Load Regulation	: Better than 3%
Class of Insulation	: Class F/H
Operating Frequency	: 50/60Hz
Degree of IP	: IP-20 (or as per your spec.)
Max. Ambient Temp.	: 40°C
Control Transformer	
Primary (Input) Voltages	: 380V- 400V- 415V- 440V (or as per your specification)
Secondary (Output) Voltages	: 200V-220V(or as per your specification)
Phase	: Single
Frequency	: 50Hz/60Hz
VA	: 25, 50,100VA to 7.5KVA
K Rating	: 1
Reverse Connectable	: No
Winding Material	: Copper
Electrostatic shielded	: No
Temperature Rise	: 80°C (25-1000 VA), 100°C (1500-7500 VA)
Insulation System	: 130°C (25-1000 VA), 155°C (1500-7500 VA)
Enclosure Rating	: Open
Construction Style	: Open - Core & Coil
Mounting Type	: Base/Panel
Cooling	: Air/dry
Agency Approvals	: UL Listed, CSA Approved, CE Marked (up to and including 5000 VA)
Warranty	: 10 Years



Drive Input / Output Chokes

- Can be installed on both input and output side of VFD
- Di/dt protection
- Offer impedance matching and harmonic mitigation
- Complete protection to drive from transient voltage, noise and surge currents
- Lowers the cable length requirement from drive to load
- Can be foot or flange mounted
- Option of natural or forced air cooling
- Process plants that require the output (load) chokes
- Submersible pumps in oil well
- Line & Load applications
- VFD's - Yasakawa, Mitsubhishi, Siemens, Allan Bradley,
- ABB, Fuji, Danfoss, LG and Control Techniques
- 50 Hz to > 5 kHz VFD's
- Process plants with output (load) chokes
- 3%, 5% & 7% Impedance
- Di / dt Protection Systems



Current Transformers

- Can be installed on both input and output side of VFD
- Di/dt protection
- Offer impedance matching and harmonic mitigation
- Complete protection to drive from transient voltage, noise and surge currents
- Lowers the cable length requirement from drive to load
- Can be foot or flange mounted
- Option of natural or forced air cooling
- Process plants that require the output (load) chokes
- Submersible pumps in oil well

Application :

- Metering, Production, Core Balanced, PS class & Special purpose

Product Type :

- Tape wound, Resin cast, Window & Bar Primary CT's &
- Polycarbonate body high accuracy such as 1.0, 0.5, 0.2, 0.5S,
- 0.2S suitable for metering applications & 5P10, 10P10, 15P10 for relaying applications

Construction :

- Ring type, Rectangular type, WPL type, CBCT type, Split core type

Electrical parameters

System Voltage	- Upto 720V
Insulation Level	- Upto 3kV
Primary current	- Upto 5000A
Secondary current	- 1A,5A & customized
Metering class	- 0.2S
Protection class	- 5P, 10P & 15P
Accuracy level factor	- 5,10, 15 & 20

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