

Why is APLAB your best Source for Line Regulators ?

- ✓ APLAB Quality prevails for over 4 decades setting standards for High Reliability & Long Life in Line Voltage Regulators.
- ✓ The first company to design Stepper Motors in India that provides Digital Drive to variable transformers in LVRs.
- ✓ We supplied India's first Servo Line Voltage Regulator to Indian Army guaranteed to work from -40°C to $+55^{\circ}\text{C}$.
- ✓ APLAB AVR feed stable line supply to Innumerable Critical Loads in Indian Military, Telecom and Broadcast Services.
- ✓ Worldwide Reputation as the only "Install & Forget" class Line Voltage Regulators.



SERVOLINE PLUS

Servo Controlled Line Voltage Stabilizer

New “SERVOLINE PLUS” Line Regulators with new better features:

- Built-in total protection against over-voltage or under-voltage or over-load or over-temperature.
- Higher speed of correction upto 70V/sec for 3-phase systems
- Assured regulated output even under unbalanced load or input lines in three phase models.
- Compact size, aesthetic looks, smaller foot-print & euro style comfort handles.

OPERATION

The *SERVOLINE PLUS* Line Voltage Regulators constantly monitor the output voltage and effectively controls any of its input variation by activating the stepper motor rotation with the help of its Intelligent Digital Controllers. A special stepper motor positions the arm of the auto-transformer to correct the output voltage within 1% of the set value.

APPLICATIONS

SERVOLINE PLUS servo-controlled voltage stabilizers are available in single phase and three phase outputs. The single phase models are available from 1kVA to 15kVA, while the three phase models are available from 3kVA to 45kVA.

APLAB SERVOLINE PLUS are extensively used in India and abroad for innumerable applications including Telecom Base Stations, Military Installations, Telephone exchanges, CNC/plastic injection machines, Industrial Automation, BPO/Call centers, IT companies, banks, hospitals, malls & multiplexes and many other critical applications.

ELECTRICAL SPECIFICATIONS

- Very high efficiency
- Intelligent digital circuits for control & monitoring
- Unaffected by load power factor
- Causes no phase shift and introduces zero wave form distortion
- Widest input range of its class
- Natural convection air-cooled
- Cut off at over-voltage and under-voltage with visual indication
- Similar trip in case of over-load or over-temperature
- Analog or digital voltmeter and ammeter
- Phase fail trip and indication (for three phase models)
- Built in surge suppressor
- Auto/manual feature

MECHANICAL SPECIFICATIONS

- Meets environmental and physical endurance tests for Military application
- CE certified
- Meets APS specifications for thermal performance and servicing ease.
- IP20 standard enclosure; IP65 option on special request.
- MIL connectors and castors (optional)

SERVOLINE PLUS

Single Phase Servo Controlled Line Voltage Stabilizer

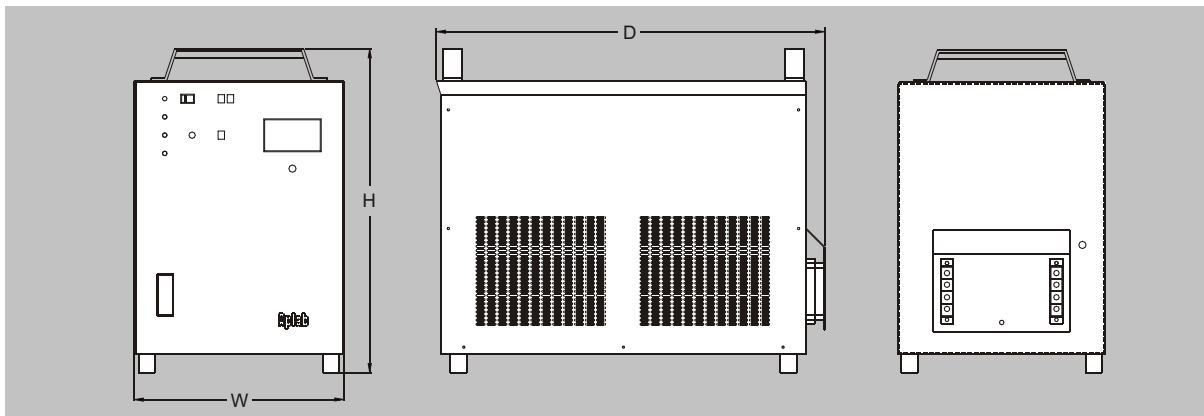
SPECIFICATION

Model	6341	6342	6343	6344	6345	6346	6347
Rated Power	1KVA	2KVA	3KVA	5KVA	7.5KVA	10KVA	15KVA
Input Voltage							
a) Normal Range	170V to 270V AC, single phase						
Extended Range Model	6341E	6342E	6343E	6344E	6345E	6346E	6347E
b) Extended Range	150V to 270V AC, single phase						
Output Voltage	230V AC						
Output Voltage Stability	±1%						
Correction Rate	30V per second to 40V per second						
Efficiency	Over 98%						
Cooling	Natural air cooled						
Metering	Voltmeter with selector switch for I/P & O/P (digital optional)						
Enclosures	IP20 standard						
Mechanical Endurance	Meets JSS55555						
Dimensions (approx) WxHxD (mm)	200x355x285		230x355x435		300x398x485		450x500x650

Extended Range SERVOLINE PLUS (Models with Suffix 'E')

All above models are also available with wider Input Range starting from 150V ac, since Power Quality in many areas is still extremely poor.

MECHANICAL DETAILS



Note: 1. The power rating of Servoline Plus is derated at low voltage to increase product life.
2. Specifications are subject to change without prior notice.

SERVOLINE PLUS

Three Phase Servo Controlled Line Voltage Stabilizer

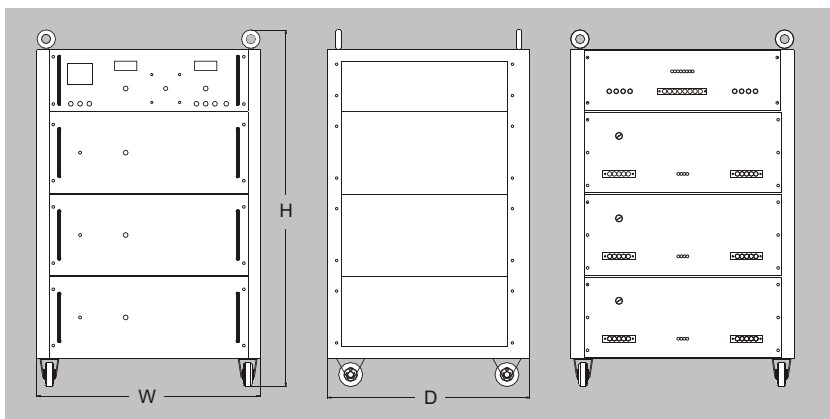
SPECIFICATION

Model	6364	6365	6366	6367	6368	6369
Rated Power	6KVA	10KVA	15KVA	22KVA	30KVA	45KVA
Input Voltage	a) Normal Range 295 V to 465 V AC, 3 Phase, 4 wire					
Extended Range Model	6364E	6365E	6366E	6367E	6368E	6369E
b) Extended Range	260 V to 465 V AC, 3 Phase, 4 wire					
Output Voltage	415 V AC					
Output Voltage Stability	±1%					
Correction Rate	50V Per second to 70 V per second					
Efficiency	Over 98%					
System By Pass	By Pass Rotary Switch for Emergency use					
Cooling	Natural Air Cooled					
Metering	Digital Voltmeter with selector switch for I / P & O / P Digital Ammeter with selector switch for output current					
Enclosures	I P 20 Standard					
Mechanical Endurance	Meets JSS55555					
Dimensions (approx) WxHxD (mm)	490x700x470		490x950x600		490x1300x800	

Extended Range SERVOLINE PLUS (Models with Suffix 'E')

All above models are also available with wider Input Range starting from 150V ac, since Power Quality in many areas is still extremely poor.

MECHANICAL DETAILS



Note: 1. The power rating of Servoline Plus is derated at low voltage to increase product life.
2. Specifications are subject to change without prior notice.



THREE PHASE STABILIZER

Aplab POWER CONTROLS & CONVERSION DIVISION

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