



DAXTEN POWER
beyond limits SpA



SUN SERIES

SINGLE PHASE SERVO MOTOR CONTROL SYSTEM AUTOMATIC VOLTAGE REGULATOR (AVR)

500VA - 50kVA

APPLICATIONS



Data Center



Telecom



Industry



Server



Security



Medical



Network



Metro



Banking



PC



FAX



Monitor



ADSL



Labs



Home Appliances



www.powertech-group.com

SALIENT FEATURES

Daxten Power SUN series automatic voltage regulators are used for regulation against single phase line voltage fluctuations. In contrast to magnetic voltage stabilizers, this type is a real automatic voltage regulator with servomotor control, applicable to very low or high output power. One important feature is the overload capacity which may run to a multiple of the rated value for a short period of time without causing output voltage breakdown. Further advantages are the independence of load power factor, a small phase displacement and very high power efficiency. These regulators are used for single-phase applications. The circuit configuration of a single phase regulator consists of ring-core variable transformer with servomotor, single auxiliary transformer and single-point regulating unit. The single DC servomotor is controlled by the regulating unit and connected to the ring-core variable transformer via a gear. The position of a carbon brush on the variable transformer is set by the servomotor. Dependent of its position, the auxiliary transformer primary winding is supplied with a voltage in phase with or dephased to the line voltage. Thereby, line over voltage and under voltage is compensated.

MODELS	SUN 0.5kVA	SUN 1kVA	SUN 1.5kVA	SUN 2kVA	SUN 3kVA	
	SUN 5kVA	SUN 10kVA	SUN 15kVA	SUN 20kVA	SUN 30kVA	SUN 50kVA

Technical Specification:

PRODUCT SERIES:		SUN SERIES										
Power Rating:		0.5kVA	1kVA	1.5kVA	2kVA	3kVA	5kVA	10kVA	15kVA	20kVA	30kVA	50kVA
Current (amp)	at 110VAC:	4	8	12	16	24	40	80	120	160	240	400
	at 220VAC:	2	4	6	8	12	20	40	60	80	120	200
Input Voltage:		65 - 145VAC / 150 - 250VAC										
Output Voltage:		110VAC/220VAC \pm 1% (Accuracy)										
Phase:		Single-phase+N+PE										
Frequency:		50Hz/60Hz										
Response Time:		Within 0.5 sec.against 10% input voltage deviation										
Efficiency:		Better than 90%										
Power Factor:		Better than 95%										
Ambient Temperature:		5°C ~ + 40°C										
Ambient Humidity:		Less than 90% (relative humidity)										
Temperature Rise:		Less than 75°C										
Cooling System:		Convection-cooled										
Control System:		DC servo-motor										
Style:		Stand-alone style										
Insulation Resistance:		More than 3 M ohm at DC 500V										
Dielectric Strength:		Tested at AC 1500V for 1 min										
Option		It is possible to effect star connection of 3 Single Phase Stabilizer to obtain a 3 Phase Stabilize 380V, with Triple Power. In this case it is necessary to effect neutral connection on input side.										

Product specification are subject to change without further notice.