



TSI ELECPower (P) LTD.,
C1B - 212, GIDC WAGHODIA,
VADODARA, GUJARAT,
INDIA - 391760
e-Mail : info@tsielecpower.com
Ph: +91-8306464647
+91-2668-262122

Specifications sheet: Fast Correction PWM Automatic Voltage Regulators (AVR's)

CATEGORY	FEATURE	SINGLE PHASE MODELS					
		VRp- 1000-9230	VRp- 2000-9230	VRp- 3000-9230	VRp- 5000-9230	VRp- 7500-9230	VRp- 10000-9230
ELECTRICAL	Capacity in KVA (KW)	1 KVA	2 KVA	3 KVA	5 KVA	7.5 KVA	10 KVA
	Regulator engine	High frequency 20 Khz IGBT driven voltage regulation convertor					
INPUT	*Nominal voltage	230 volts ac, single phase					
	*Normal operating voltage (typical output regulation within +/- 2% of nominal)	184 - 276 volts ac for full regulation					
	Relaxed operating voltage (relaxed output regulation within functional range of 200-250V P-N)	160 - 300 volts ac within maximum rated input current capacity					
	Maximum rated input current	5A	11A	16A	27A	40 A	54A
	Nominal frequency	47 - 63 Hz					
	Input circuit breaker rating	10 A X 2 phase (ganged MCB)	16 A X 2 phase (ganged MCB)	20 A X 2 phase (ganged MCB)	32 A X 2 phase (ganged MCB)	40 A X 2 phase (ganged MCB)	63 A X 2 phase (ganged MCB)
	Input wire size	2.5 mm ² (AWG 14)	4 mm ² (AWG 12)	4 mm ² (AWG 12)	6 mm ² (AWG 10)	10 mm ² (AWG 8)	10 mm ² (AWG 8)
	Ac connection	Terminal block (L1in , neutral and ground wires) provided					
OUTPUT	*Nominal voltage	230 volts ac, three phase					
	Power efficiency	typically over 96 % (with 20 - 100% load conditions)					
	Voltage regulation (typical)	+/- 2 %					
	Maximum rated output current	4A	9A	13A	22A	32A	43A
	System status indicator	Green LED (ON) indicates Normal (regulating mode) operation					
Ac connection	Terminal block (L1op , neutral and ground wires) provided						
PHYSICAL	Dimensions (IN MM)	240 W x 165 H x 415 D				400 W x 280 H x 540 D	
	Weight (approx.)	16 kgs	19 Kgs	20 kgs	23 kgs	40 Kgs	50 Kgs
	Annunciation	LED display for Regulation mode, Bypass mode & Fault conditions					
	Mounting	Pad Mounted					
ENVIRONMENTAL	Ambient temperature	0° to + 40° centigrade (32° to +104° farhenite). 10 to 90% RH non-condensing					
	Cooling method	Natural Cooled					
PROTECTIVE FEATURES	Standards & Safety	Designed to meet UL 60950-1 standards. Protection class IP 20.					
	Overload & Short Circuit Protection	Through suitably rated input circuit breaker					
	Soft Switch-On	This feature ensure that output voltage is never higher than input voltage upon switch-on, before it commences full stabilization.					
	Automatic bypass	Automatic bypass will be activated when there is a fault condition					
	Surge Test Conditions	Per Class 2 Surge (combination wave)					
Surge let-through voltages	1.2 X 50µs, 6kV, 8 X 20 µs, 3 kA waveform. L-N < 300V						
WARRANTY	Warranty	Two year limited warranty, covering repair / replacement of defective parts					
NOTE	All * marked voltage regulation ranges are based on 230 V nominal output voltage. They would propoortinately change in case nominal output voltage is required to be preset at any other value between 215-240 V.						