

 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 (VRp series AVR's)						
CATEGORY	FEATURE	THREE PHASE MODELS						
		VRp- 3000-9339	VRp- 6000-9339	VRp- 9000-9339	VRp- 15000-9339	VRp- 22500-9339	VRp- 30000-9339	VRp- 45000-9339
ELECTRICAL	Capacity in KVA (KW)	3 KVA	6 KVA	9 KVA	15 KVA	22.5 KVA	30 KVA	45 KVA
	Regulator engine	High frequency 20 Khz IGBT driven voltage regulation convertor						
INPUT	*Nominal voltage	400 volts ac, three phase						
	*Normal operating voltage (typical output regulation within +/- 2% of nominal)	320 - 480 volts ac for full regulation						
	Relaxed operating voltage (relaxed output regulation within functional range of 200-250V P-N)	277 - 520 volts ac within maximum rated input current capacity						
	Maximum rated input current	5A	11A	16A	27A	40 A	54A	80 A
	Nominal frequency	47 - 63 Hz						
	Input circuit breaker rating	10 A X 3 phase (ganged MCB)	16 A X 3 phase (ganged MCB)	20 A X 3 phase (ganged MCB)	32 A X 3 phase (ganged MCB)	40 A X 3 phase (ganged MCB)	63 A X 3 phase (ganged MCB)	80 A X 3 phase MCCB
	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)	16 mm ² (AWG 6)
Ac connection	Terminal block (L1in , L2in, L3in, neutral and ground wires) provided							
OUTPUT	*Nominal voltage	400 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	65A
	System status indicator	Green LED (ON) indicates Normal (regulating mode) operation						
	Ac connection	Terminal block (L1op , L2op, L3op, neutral and ground wires) provided						
PHYSICAL	Dimensions (IN MM)	500 Wx 320 H x 660 D			610 Wx 570 H x 610 D			660 W x 570 H x 660 D
	Weight (approx.)	60 kgs	65 Kgs	70 kgs	105 kgs	115 Kgs	140 Kgs	160 Kgs
	Annunciation	LED display for Regulation mode, Bypass mode & Fault conditions						
	Mounting	Pad Mounted			4 High Quality Castor wheels, 2 with brakes			
ENVIRONMENTAL	Ambient temperature	0 ^o to + 40 ^o centigrade (32 ^o to +104 ^o farhenite). 10 to 90% RH non-condensing						
	Cooling method	Fan 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 400 V nominal output voltage. They would proportionately change in case nominal output voltage is required to be preset at any other value between 380-415V.							