

	TSI POWER (P) LTD, PLOT NO. 154-155, SIDDHI INDUSTRIAL INFRASTRUCTURE PARK, WAGHODIA, VADODARA-391760, GUJARAT, INDIA e-mail : info@tsipower.in Ph: +91 8000455999	Specifications sheet: Fast Correction PWM Automatic Voltage Regulator (AVR), ± 20% series										
CATEGORY FEATURE		<small>THREE PHASE MODELS</small>										
ELECTRICAL		VRp-3000-9339-200	VRp-6000-9339-200	VRp-10000-9339-200	VRp-15000-9339-200	VRp-25000-9339-200	VRp-30000-9339-200	VRp-40000-9339-200	VRp-50000-9339-200	VRp-70000-9339-200	VRp-100000-9339-200	
Capacity in KVA (KW)		3 KVA	6 KVA	10 KVA	15 KVA	25 KVA	30 KVA	40 KVA	50 KVA	70 KVA	100 KVA	
Regulator engine		High frequency 20 KHz IGBT driven voltage regulation convertor										
*Nominal voltage		400 volts ac, three phase										
*Normal operating voltage (typical output regulation within +/- 1% 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		6A	11A	18A	27A	45A	54A	72A	90A	125A	180 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)	50 A X 3 phase (ganged MCB)	63 A X 3 phase (ganged MCB)	80 A X 3 phase MCCB	100 A X 3 phase MCCB	125 A X 3 phase MCCB	200 A X 3 phase MCCB	
Input wire size		4 mm ² (AWG 12)	4 mm ² (AWG 12)	4 mm ² (AWG 12)	6 mm ² (AWG 10)	6 mm ² (AWG 10)	10 mm ² (AWG 8)	16 mm ² (AWG 6)	25 mm ² (AWG 4)	25 mm ² (AWG 4)	2x25 mm ² (AWG 0)	
Ac connection		Terminal block (L1in, L2in, L3in, neutral and ground wires) provided										
*Nominal voltage		400 volts ac, three phase										
Power efficiency		typically over 96 % (with 20 - 100% load conditions)										
Voltage regulation (typical, excluding meter error)		+/- 1%										
Maximum rated output current		4A	9A	14A	22A	36A	43A	58A	72A	101A	144A	
System status indicator		Green LED (ON) indicates Normal (regulating mode) operation										
Ac connection		Terminal block (L1op, L2op, L3op, neutral and ground wires) provided										
Dimensions (IN MM)		610DX 610W x 640H				660D x 660W x 570H			660D x 660W x 720H		888D x 888W x 838H	
Weight (approx.)		80 kgs	80 Kgs	95 kgs	120 kgs	120 Kgs	145 Kgs	160 Kgs	175 Kgs	280 Kgs	310 Kgs	
Annunciation		LED display for Regulation mode, Bypass mode & Fault conditions										
Mounting		4 High Quality Castor wheels, 2 with brakes										
Ambient temperature		0 ^o to + 45 ^o centigrade (32 ^o to +113 ^o farhenite). 10 to 90% RH non-condensing										
Cooling method		Fan Cooled										
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		Two year limited warranty, covering repair / replacement of defective parts										
NOTES		1. 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. 2. All models of VRp's are optionally available with 400 Volts to 200 Volts step down transformers. 3. Please ask if any non-standard range or customised feature is required. 4. Since our designs are constantly evolving, the above specifications are liable to change without prior notice.										