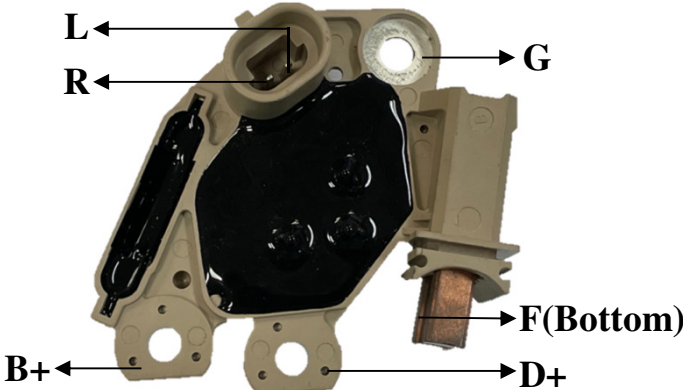


NAME	VR-V025 Electrical Specification	NO	VR-1-1-2010
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<p>Regulation System Connection Wire Diagram</p> 	<p>System Regulator Type:</p> <ul style="list-style-type: none"> •Voltage Set Point :14.5V •Regulation : A – Circuit
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PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	T_{OP}	-40	---	125	°C
Field	I_F	---	5	---	A
Voltage Set Point (2500 RPM, at 20A load)	V_{SET}	14.3	14.5	14.7	V
Speed Regulation (2000 RPM to 6000 RPM ,at load = 15A)	V_{SR}	---	-0.1	-0.3	V
Load Regulation (10% to 80% ,at Speed = 6000 RPM)	V_{LR}	---	-0.4	-0.5	V
Saturation Voltage @ 5A, 12Volts	V_{SAT}	---	0.6	0.8	V
Temperature Coefficient	T_C	-13	-10	-7	mV/ °C
Cut- in Speed	R_{CIS}	---	---	1600	RPM

Safety Characteristics:

- **Over voltage :** $V_s = 24 V$, 60 sec. from the ignition SW. is turned ON/OFF without failure.
- **Repetitive Thermal Shock :**
The Regulator shall be designed to withstand 500 cycles of -30°C to 125 °C in 20 minutes and 125 °C to -30 °C in 20 minutes.
- **High Temperature Test :**
The Regulator shall be designed to operate reliability at the rated current of alternator is 80% to100% and at 6000 rpm (shaft speed) for a minimum of 10 hours at 125 °C.

2024.11.21		1	柯文彬	柯文彬	林勝雄	林勝雄		
DATE OF FIRST EDITION	DATE OF REVISED EDITION	EDITION	MANU-SCRIPT	ORI-GINAL REVIEW	SECOND REVIEW	APP-ROVAL	ISSUED MARK	COPY'S NUMBER