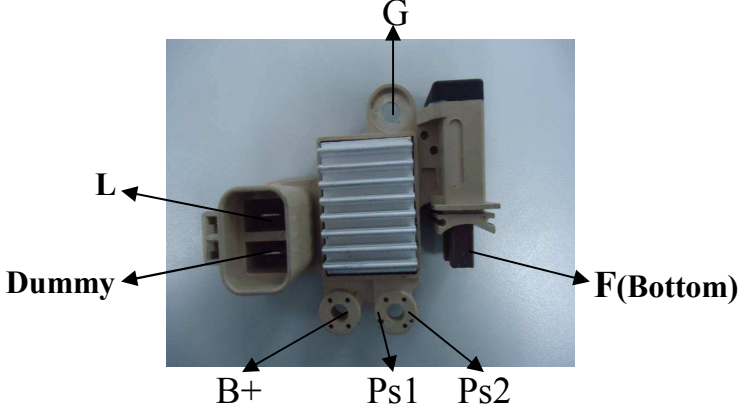


NAME	VR – V024 Electrical Specification	NO	VR-1-1-1641
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<p>Regulation System Connection Wire Diagram</p> 	<p>System Regulator Type:</p> <ul style="list-style-type: none"> ● Voltage Set Point :14.5V ● Regulation : B – Circuit ● Inactive Lamp ● Soft Start ● Short Circuit Protection ● Backup of Phase Terminal ● Self Exciting Regulator
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PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	T_{OP}	-30	---	125	°C
Field	I_F	---	5	---	A
Voltage Set Point (2500 RPM, at 20A load)	V_{SET}	14.30	14.50	14.70	V
Secondary Set Point (2500 RPM ,at 20A load)	V_{SET2}	---	---	---	V
Speed Regulation (2000 RPM to 6000 RPM ,at load = 15A)	V_{SR}	---	-0.1	-0.3	V
Load Regulation (10% to 95% ,at Speed = 6000 RPM)	V_{LR}	---	-0.4	-0.5	V
Saturation Voltage @ 5A, 12Volts	V_{SAT}	---	0.4	0.5	V
Standby Current (Key off, $V_{BAT} = 12.6V$)	I_{SB}	---	---	2.0	mA
Temperature Coefficient	T_C	-6	-3	0	mV/ °C
Over voltage Indication	V_{OV}	15.8	16.3	16.8	V
Under voltage Indication	V_{UV}	9.5	10.0	10.5	V
Soft-Start Duty	D_{SS}	15	30	45	%
LRC Delay Time	T_{LRC}	---	---	---	Sec
Cut-in Speed	R_{CIS}	---	---	1200	RPM

Safety Characteristics:

- **Over voltage :** $V_s = 24 V$, 60 sec. from the ignition SW. is turned ON/OFF without failure.
- **Battery Reversal :** $V_s = -14 V$, 60 sec. from accidental battery reversal without failure.
- **Short Circuit Protection :** The regulator stands short circuit of Field and Lamp and Choke 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% to 100% and at 6000 rpm (shaft speed) for a minimum of 10 hours at 125°C.

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Date of first edition	Date of revised edition	Edition	Manu-script	Review	Approval	Aug.01.2016
						Release