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| NAME | VR- H2009-262B Electrical Specification | NO | VR-1-1-2606 |
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| <p style="text-align: center;">Regulation System Connection Wire Diagram</p> | <p>System Regulator Type:</p> <ul style="list-style-type: none"> ● Voltage Set Point :28.4V ● Regulation : A – Circuit ● Inactive Lamp |
|---|---|

| 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} | 28.1 | 28.4 | 28.7 | 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, 24Volts | V_{SAT} | --- | 0.6 | 0.8 | V |
| Standby Current (Key off, $V_{BAT} = 25.2V$) | I_{SB} | --- | --- | 5 | mA |
| Temperature Coefficient | T_C | -8 | -5 | -2 | mV/ °C |
| Over voltage Indication | V_{OV} | --- | --- | --- | V |
| Under voltage Indication | V_{UV} | --- | --- | --- | V |
| Soft-Start Duty | D_{SS} | --- | --- | --- | % |
| LRC Delay Time | T_{LRC} | --- | --- | --- | Sec |
| Cut-in Speed | R_{CIS} | --- | --- | 1500 | RPM |

Safety Characteristics:

- **Over voltage :** $V_s = 24 V$, 60 sec. from the ignition SW. is turned ON/OFF without failure.
- **Short Circuit Protection :** The regulator stands short circuit of Field 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 | ORI-GINAL REVIEW | SECOND REVIEW | APP-ROVAL | ISSUED MARK | COPY'S NUMBER |