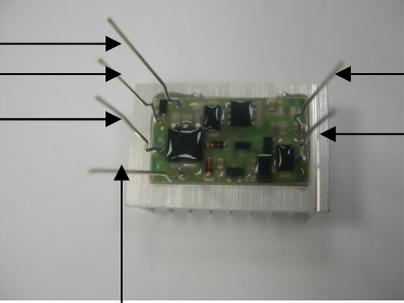


NAME	VR-H2000-46S Electrical Specification	NO	VR-1-1-649
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<p style="text-align: center;">Regulation System Connection Wire Diagram</p>  <p>The diagram shows a green printed circuit board (PCB) with several terminals. On the left side, terminals are labeled B, G, and Ps from top to bottom. On the right side, terminals are labeled S and L. At the bottom, a terminal is labeled F. Arrows point from each label to its corresponding terminal on the PCB.</p>	<p>System Regulator Type:</p> <ul style="list-style-type: none"> • Voltage Set Point :14.5V • Regulation : A – Circuit • Inactive Lamp • Soft- Start, 8.5sec LRC • Short Circuit Protection • S open Lamp on • Ps open Lamp on
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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}	14.3	14.5	14.7	V
Secondary Set Point (2500 RPM ,at 20A load)	V_{SET2}	15.2	15.5	15.8	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}	---	0.6	0.8	V
Standby Current (Key off, $V_{BAT} = 12.6V$)	I_{SB}	---	---	1.0	mA
Temperature Coefficient	T_C	-6	-3	0	mV/ °C
Over voltage Indication	V_{OV}	16.0	16.5	17.0	V
Under voltage Indication	V_{UV}	9.3	9.8	10.3	V
Soft-Start Duty	D_{SS}	15	30	45	%
LRC Delay Time	T_{LRC}	6.5	8.5	10.5	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 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.

2006.11.20.	2010.03.29.	4	鄭浩然					
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