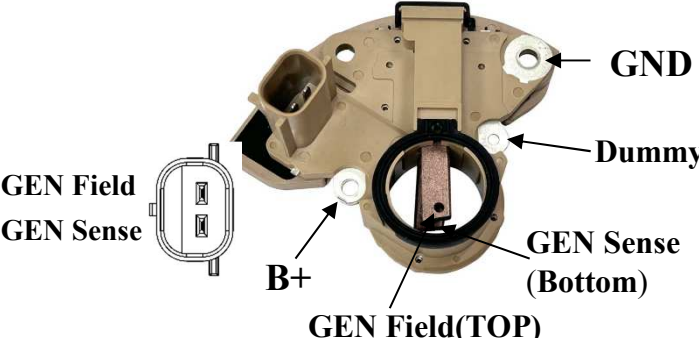


<b>NAME</b>	<b>BH – M07 Electrical Specification</b>	<b>NO</b>	<b>VR-1-1-2637</b>
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<p style="text-align: center;"><b>Regulation System Connection Wire Diagram</b></p> 	<ul style="list-style-type: none"> <li>● <b>Terminal Block</b></li> <li>● <b>With 0.47μF capacitor</b></li> </ul>
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PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	$T_{OP}$	-30	---	125	°C
Field	$I_F$	---	--	---	A
Voltage Set Point (2500 RPM, at 20A load)	$V_{SET}$	---	---	---	V
Secondary Set Point (2500 RPM ,at 20A load)	$V_{SET2}$	---	---	---	V
Speed Regulation (2000 RPM to 6000 RPM ,at load = 15A)	$V_{SR}$	---	---	---	V
Load Regulation (10% to 95% ,at Speed = 6000 RPM)	$V_{LR}$	---	---	---	V
Saturation Voltage @ 5A, 12Volts	$V_{SAT}$	---	---	---	V
Standby Current (Key off, $V_{BAT} = 12.6V$ )	$I_{SB}$	---	---	---	mA
Temperature Coefficient	$T_C$	---	---	---	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	$R_{CIS}$	---	---	---	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% to100% and at 6000 rpm ( shaft speed ) for a minimum of 10 hours at 125 °C .

2025.07.29		1	蔡榮宗	林孟昌	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