

NAME	VR-H2009-266B Electrical Specification	NO	VR-1-1-2655
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<p align="center">Regulation System Connection Wire Diagram</p>	<p>System Regulator Type:</p> <ul style="list-style-type: none"> ● Voltage Set Point :28.6V ● Regulation : A – Circuit ● Active Lamp ● IG Open Lamp On ● W : Tacho
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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}	28.3	28.6	28.9	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}	---	-0.5	-0.6	V
Saturation Voltage @ 5A, 12Volts	V _{SAT}	---	0.6	0.8	V
Standby Current (Key off, V _{BAT} = 25.2V)	I _{SB}	---	---	2.0	mA
Temperature Coefficient	T _C	-9	-6	-3	mV/ °C
Over voltage Indication	V _{OV}	33.0	34.0	35.0	V
Under voltage Indication	V _{UV}	21.5	22.5	23.5	V
Soft-Start Duty	D _{SS}	5	20	35	%
LRC Delay Time	T _{LRC}	---	---	---	Sec
Cut-in Speed		---	---	1500	RPM

Safety Characteristics:

- **Over voltage :** Vs = 48 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.

2025.10.28		1	張家豪	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