

NAME	VR-PR7736 Electrical Specification	NO	VR-1-1-555
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Regulation System Connection Wire Diagram

System Regulator Type:

- Voltage Set Point :14.5V
- 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}	14.30	14.50	14.70	V
Secondary Set Point (2500 RPM ,at 20A load)	V _{SET2}	---	---	---	V
Computer Set Point	V _{SEC}	---	---	---	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}	---	-0.3	-0.5	V
Saturation Voltage @ 5A, 12Volts	V _{SAT}	---	0.5	0.8	V
Standby Current (Key off, V _{BAT} = 12.6V)	I _{SB}	---	---	0.5	mA
Temperature Coefficient	T _C	-6	-3	0	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		---	---	1300	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.
 - **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.

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