NAME	VR-H2005-183 Electrical Speci	NO	VR-1-1-1649	
Regula GND F	tion System Connection Wire Diagram BSS (COM)	Regulator I • Regulation • Stand by current co • Self mod • Default r • BSS (Cont • Variable • Field out • Tempera	Feature m : B – mode& ntrol e node m) mod V settin t duty n ture &	s : Circuit : Leakage e ng nonitor Field current

Parameters and Conditions	SPEC	Min.	Туре	Max.	SYMBOLS
Switch OFF Leakage Current	PS < 800rpm , BSS = Low , B+=12.0V			2	mA
	Default Mode	14.0	14.2	14.4	V
Regulator Set Point	Defined by external ECU/BSS command.	10.7		16.0	V
Output Saturation Voltage	I F = 5A			0.8	v
Field Control Frequency	10% < Duty cycle < 95%	100	150	200	Hz
Error Display High Temp. Protection Threshold on Board (Substrate)	Field output OFF		160		Ċ
Self Drive Termination RPM Threshold Safe mode	Safe mode	725	800	875	rpm
Self Drive Initiation RPM Threshold	Safe mode frequency given according to the programmed number of generator poles	2750	3000	3250	rpm

Safety Characteristics: > Over voltage : Vs = 24 V, 60 sec. from the ignition SW. is turned ON/OFF without failure.

Battery Reversal : Vs = -14 V, 60 sec. from accidental battery reversal without failure.

> Short Circuit Protection : The regulator shall stand short circuit on Field without failure and return normal operation within 2 seconds once short condition is removed.

➢ 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 reliably at the load from 80% to 100% of the

alternator rated current and at 6000 rpm (shaft speed) for a minimum of 10 hours at 125 °C.

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