NAME

VR-V2192 Electrical Specification

NO

VR-1-1-2510

Regulation System Connection Wire Diagram $F(Top) \blacktriangleleft$ **▼**GND

System Regulator Type:

●Voltage Set Point:14.5V

● Regulation: B – Circuit

Active Lamp

•Soft Start, 5.0 sec LRC

•Short Circuit Protection

PARAMETERS AND CONDITIONS	SYMBOLS	MIN.	TYP.	MAX.	UNITS
Operating Temperature Range	T _{OP}	-30		125	c
Field	$I_{ m F}$		5		A
Voltage Set Point (2500 RPM, at 20A load)	$ m V_{SET}$	14.30	14.50	14.70	V
Secondary Set Point (2500 RPM ,at 20A load)	$ m V_{SET2}$				V
Speed Regulation (2000 RPM to 6000 RPM ,at load = 15A)	$ m 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}		0.4	0.5	V
Standby Current (Key off, V _{BAT} = 12.6V)	I_{SB}			1	mA
Temperature Coefficient	T_{C}	-6	-3	-0	mV/ ℃
Over voltage Indication	V _{ov}				V
Under voltage Indication	V _{UV}	9.0	10.0	11.0	V
Soft-Start Duty	D_{SS}	10	15	20	%
LRC Delay Time	T_{LRC}	2.5	5.0	7.5	Sec
Cut-in Speed	R _{CIS}			1500	RPM

Safety Characteristics:

- Over voltage: Vs = 24 V, 60 sec. from the ignition SW. is turned ON/OFF 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 $\hat{2}0$ minutes and 125° C to -30° C in $\hat{2}0$ 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.

2024.08.28		1	王毅賢	柯文彬	林勝雄	林勝雄		
DATE OF FIRST EDITION	REVISED	EDITION	SCRIPT	CINAI	SECOND REVIEW	APP- ROVAL	ISSUED MARK	COPY'S NUMBER