

PARAMETERS AND CONDITIONS	SPEC	Min.	Туре	Max.	SYMBOLS
Operating Temperature	Operating Temperature	erating Temperature -30 125			
Switch OFF Leakage Current	Ps < 800rpm , BSS = Low , B+=12.0V			mA	
	Default Mode	14.10	14.3	14.50	V
Regulator Set Point	Defined by external ECU/BSS command.	10.6		16.0	v
Output Saturation Voltage	I F = 5A			0.8	V
Field Current Limit	F shorted to ground	10			А
Field Control Frequency	10% < duty cycle < 95%	175	200	225	Hz
Error Display High Temp. Protection Threshold on board(substrate)	Field output OFF		160		Ċ
Self Drive Initiation rpm Threshold	Safe mode Frequency given according to the programmed number of generator poles	2200	2600	3000	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 20 minutes and  $125^{\circ}$ C to  $-30^{\circ}$ 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  $125^{\circ}$ C.

2023.08.04		1	張家豪	柯文彬	林勝雄	林勝雄		
FIRST	DATE OF REVISED EDITION	EDITION	SCRIPT		SECOND REVIEW	APP- ROVAL	ISSUED MARK	COPY'S NUMBER

[ CBP-020012 ]

## **MOBILETRON ELECTRONICS CO., LTD**