



CHROMA ATE INC.

致茂電子股份有限公司

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ECR No.: R0002211 (Process-044586) MODIFICATION TECHNICAL ADDENDUM

Modification for 600V 63210.

Description

The voltage specification of 63210 is modified from 500V to 600V, and the specifications of power and current remain the same.

Specification

The modification specification is shown as below.

Model	63210	
Power ^{*1}	1450W	14500W
Current	0-15A	0-150A
Voltage	0-600V	
Min. operating voltage ^{*9}	1.5V @ 7.5A	1.5V @ 75A
	3V @ 15A	3V @ 150A
Constant Current mode		
Range	0-15A	0-150A
Resolution	4.9mA	39mA
Accuracy	0.1%+0.1%F.S.	0.2%+0.1%F.S.
Constant Resistance mode		
Range	0.1-400Ω	5-20000Ω
Resolution ^{*7}	3.21mS	80.1μS
Accuracy ^{*2}	0.0128S+0.35%	0.092S+0.1%
Accuracy ^{*3} (Vin ≥ 10V)	0.0128S+0.35%	317.7μS+0.35%
Min. operating current	1A	1A
Constant Voltage mode		
Range	3V-150V	3V-600V
Resolution	40mV	162mV
Accuracy	0.05%+0.1%F.S.	
Constant Power mode		
Range	5-1450W	50-14500W
Resolution	25mW	250mW
Accuracy	0.5%+0.5%F.S.	
Timing		
T1&T2	0.025ms-10ms	1ms-30s
Resolution	1μs	1ms





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Accuracy	1 μ s+100ppm	1ms+100ppm
Slew rate ^{*10}	3mA-0.75A/ μ s	25mA-6A/ μ s
Resolution	3mA/ μ s	25mA/ μ s
Accuracy	10% \pm 20 μ s	
Min. Rise Time	150 μ s (Typical)	
Dynamic Min. Operating Voltage	3V	
Current		
Range	0-15A	0-150A
Resolution	4.9mA	39mA
Accuracy	0.4%F.S.	
Voltage read back		
Range	0-150V	0-600V
Resolution	5.1mV	21mV
Accuracy	0.05%+0.05%F.S.	
Current read back		
Range	0-15A	0-150A
Resolution	0.64mA	5.1mA
Accuracy	0.1%+0.1%F.S.	
Power read back		
Range	0-1450W	0-14500W
Accuracy ^{*5}	0.3%+0.3%F.S.	
Short circuit		
Current	15A	150A
Dimension (HXWXD)	762.8 \times 546 \times 700 mm / 30 \times 21.5 \times 27.6 inch	
WEIGHT	170 kg / 374.45 lbs	
EMC & Safety	CE	

Note*1: The power rating specifications are defined at ambient temperature=25°C.

Note*2: For Vin greater than min. operating voltage and less than 10V.

Note*3: For Vin greater than 10V.

Note*4: Setting error will be 1% for R < 0.005 Ω at CRL range.

Note*5: Power F.S. = V_{range} F.S. \times I_{range} F.S.

Note*6: Configuration modification

6.1 CC, CP V range select

6.1.1 High range: Modified to 600V.

6.1.2 Low range: Modified to 150V.

6.2 Von Protection





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6.2.1 Von Point High range: Modified to 600V.

6.2.2 Von Point Low range: Modified to 150V.

6.3 SPEC Entry Mode (Value: CC, CR, CP mode)

6.3.1 Voltage High range: Modified to 600V.

6.3.2 Voltage Low range: Modified to 150V.

6.4 Battery Discharge

6.4.1 Voltage High range: Modified to 600V.

Note*7: S (Siemens) is the SI unit of conductance, equal to one reciprocal ohm.

Note*8: If the operating voltage exceeds the rated voltage for 1.1 times, it would cause permanent damage to the device.

Note*9: To ensure full load current at CCH and CCL mode under low operating voltage, please set the voltage measurement range as low range.

Note*10: The minimum rise time of CC dynamic is 150 μ s for 600V 63210. If the minimum rise time is shorter than 150 μ s, the current overshoot will be over 5% of full scale current.

