



COMPLIANCES

ICAO
Aerodrome Design Manual Part 5

FAA
61822

IEC
AC 150/5345-10, L829

FEATURES

- Free Standing Unit
- Housing Divided into Three Areas :

Electronic Control, Low Voltage & High Voltage

- Natural Air Cooled
- Operating Temperature Range 40- to 55+°C
- Output Current : 6.6 or 20 Amps (1,3,5 or
- 7 Steps) Option : Non Illumination Step
- Rating From 2.5 to 30 KW
- Output Current Regulation %1.0±
- Efficiency : Not Less Than %90
- Open Circuit Protection
- Input Power Loss Monitoring
- Elapsed Time Monitoring
- Local Control
- Parallel Remote Control

- Power Factor : Not Less than %90
- Over Current Protection
- Regulation Error Monitoring
- Lamp Fault Monitoring
- V1, I1, V2, I2, VA2 Monitoring

COMPONENT

CONTROL SECTION

This Section Constitutes the Control & Monitoring System of the Constant Current Regulator Using a Micro Processor. All Settings and Controls are Made Through a

Key Pad and the Actual Values of the CCR are Presented on a OLED display and Through LED Indicators.

The Main Components of the Control Section are as Follows :

- Earth Fault Power Supply Card
- Power Supply PCB
- Driver PCB
- Sensor PCB

HIGH VOLTAGE SECTION

The High Voltage Section Supplies Current to the Series Circuit and its Main Components are as Follows :

- Output Transformer
- Current Transformer
- Lighting Arrester
- Output Terminal
- · Coupling Choke

LOW VOLTAGE SECTION

The Low Voltage Section Receives the Input From the Control Section and Executes the phase Control Through the Thyristor. It Supplies Power to the Output Transformer. The Main Components of the Low Voltage Part are as Follows :

- Circuit Breaker
- Power Relay
- Magnet Contact
- Thyrsitor Moudle
- Input Choke
- Thyristor Drive Board

CCR **Constant Current Regulator**

> Туре Ratings

Input Voltage

Output Current

Brightness Step

Accuracy

Power Factor

Efficiency Control

Remote Control

Protection

Monitoring

SPECIFICATION

Thyristor Phase Control

2.5, 4, 5, 7.5, 10, 15, 20, 25, 30 KW

Single Phase 220V 50 / 60 Hz (other voltage upon request)

6.6 A max (20 Amp upon request)

7 Adjustable steps (1, 3, 5 or 7 steps) Option : Non illumination step 1.8A

All steps : within ±1%

>90% at nominal input and full load

>90% at nominal input and full load

Parallel: 24 VDC to 60 VDC

Serial: RS-485 Dual line

Over Current Protection

12 = 6.85A < 4 sec / 12 = 6.93A < 2 sec 12 = 7.10A < 1 sec / 12 = 8.30A < 0.3 sec

> Open circuit protection l² = 1.50A < 1 sec

Over current monitoring

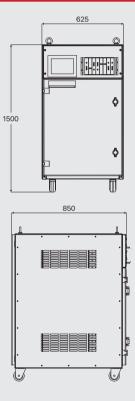
Open circuit monitoring

Fuse fault monitoring Current regulation error monitoring

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OUTPUT CURRENT				
6.6A			20A	
1 Step	3 Step	5 Step	7 Step	5 Step
1:6.6A	3:6.6A	5:6.6A	7:6.6A	5:20A
	2:5.5A	4:5.2A	6:6.4A	4:15.8A
	1:4.8A	3:4.1A	5:5.2A	3:12.4A
		2:3.4A	4:4.1A	2:10.3A
		1:2.8A	3:3.4A	1:8.5A
			2:2.8A	
			1:2.2A	
Non illumination step : 1.8A (option)				

DIMENSIONS



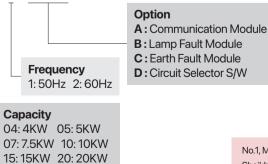
	Input power loss monitoring		
	Output V-A Drop monitoring		
	Lamp fault monitoring		
	Earth fault monitoring		
	V1, I1, V2, I2, VA2 monitoring		
	Elapsed time monitoring		
Ventilation	Natural air cooled		
Temperature	0 to +55°C operation range		
Humidity	10 ~ 95 % operation range		
Altitude	0 to 2000 m. above sea level		
Model Name			

CCR2 **Output Current** 1:6.6A, 2:20A **Input Voltage**

1:208V 2:220V 3:380V 4:480V 5: User Request

D

25: 25KW 30: 30KW



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