

Micro Processor Constant Current Regulator



VAS-MPCCR-30

Compliance with standards

- ICAO Aerodrome Design Manual 9157 Part 5, para 3.2.
- FAA AC 150/5345-10H
- IEC 61820-3-2

Application

- Designed specifically for the supply of airport lighting series circuits of varying intensities.

Specifications

Environmental Properties

- Relative Humidity: $\leq 95\%$
- Working Temperature between -40° to 55° degree.
- Altitude Range of 0 to 10000 feet above Mean Sea Level.
- Can withstand Salt laden atmosphere.

Performance

- Efficiency: $>90\%$
- Current Output: 5 Steps (2.8A, 3.4A, 4.1A, 5.2A, 6.6A) and 7 steps is optional as per requirement.
- Temperature Rise: $\leq 60^{\circ}\text{C}$.
- Power Factor: $>90\%$.
- Output Current Stability: $\pm 0.05\%$ of Nominal Current.

Features

- Remote Control Operation.
- Nominal RMS output current (2.8A, 3.4A, 4.1A, 5.2A, 6.6A).
- Failure Indications for SCR Fail, Over Current, Open Circuit with alarm and failure indication for insulation resistance.
- Stable Output Current.
- Output Tapping Arrangements for 20, 25, 30 and 36KW.
- EEPROM and RAM for record of faults or error in previous operation.
- HMI Control and Display Unit.
- Parallel Communication.
- Serial Communication.
- Open Ckt 1 to 1.5A .
- Current Regulation Error.
- Input Power Loss.
- Over Current Protection.
- Earht Fault.
- CCR Address Setting .
- CCR Date and Time setting.
- Series Circuit Cut Out Switch.
- Voltage Surge Suppressing/ Lightning Protection.

Features

- Degrade Mode Facility 30% SIT lamp fail or Open Cktd.
- Faciltiy for monitoring for more than 10% VA drop.
- Monitoring Guide as per the requirement can feed in HMI.
- Dual over current protection.
- Remote control cable fault protection.
- Dual current meter (In HMI + ampere meter).
- HMI Control + manual brilliancy selector control
- Failsafe function in case of communication failure.
- Two configurable levels for lamp fault detection.
- Low Voltage Circuit Breaker.
- Low Voltage Indication.

Electrical supply

- 220 - 240V for below 7.5KW CCRs, 50/60 Hz.
- 415V for above 10KW CCRs, 50/60 Hz.

Product Range

Sr.No.	Product Range	Order Code
1	2.5KW	VAS-MPCCR-2.5
2	4KW	VAS-MPCCR-04
3	7.5KW	VAS-MPCCR-7.5
4	10KW	VAS-MPCCR-10
5	15KW	VAS-MPCCR-15
6	20KW	VAS-MPCCR-20
7	30KW	VAS-MPCCR-30



ISO 9001:2015 Certified Company



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