

CONTROL UNIT - USCC/11



- ✓ 3U hot plug-in module;
- ✓ Full operation by keypad or software (measures, adjusts, hardware setup, etc...);
- ✓ Control up to 15 Rectifier Units;
- ✓ Battery management (float voltage compensation with temperature, LVD circuit);
- ✓ Input for 3 external alarms;
- ✓ Individual and brief remote alarms;
- ✓ Setup and adjusts protected by password;
- ✓ Meet Brazilian Telecommunications Agency (ANATEL) requirements.

ELECTRICAL

Redundancy Supply	AC network (90~300Vac) and DC (36~60Vdc)
Maximum Input Current	0.2A @ 36Vdc
Withstand Voltage	1500Vdc (Ground to Input or Input to Output)
MTBF	> 276,000 hours @ 25°C (RELEX 7.5)

MECHANICAL

Connections	Female connector DIN41612 - VG95324 - type B, 96 circuits
Dimensions	Height: 133mm; Width: 65mm; Depth: 288mm
Weight	0.7Kg

FEATURES

Display Indicators	Power ON (green) Not Urgent alarm (yellow) Urgent alarm (red)
Keypads	LCD (2 lines with 16 characters each) “+” and “-” keys to scroll through menus and to increase or decrease configuration values. “SEL” key to go to configuration mode and edit mode, save configuration changes and clear alarms. “ESC” to go to the main display mode or cancel configuration changes.
Measures	AC Mains Voltage Output Voltage Battery Voltage Battery Current Load Current Battery Temperature
Parameter Configuration ¹	Float Voltage: -45Vdc to -56Vdc Equalize Voltage: -48Vdc to -58.4Vdc Limit Current per Rectifier Unit: 10A to 25A Intrinsic Overvoltage: -52.2Vdc to -58.8Vdc Bus Overvoltage: -52Vdc to -60Vdc Battery Type: VRLA / Non-Sealed Battery in Discharge Voltage Level: -46Vdc to -49.5Vdc LVD Level: -38Vdc to -44Vdc Battery Capacity: 100Ah to 1000Ah Number of Battery Cells: 22 cells to 24 cells Compensation Rate: 0 to 5.5mV/°C.Battery Cells Threshold Current: 2mA/Ah to 22mA/Ah



Remote Signals ²	Reference Battery Temperature: 20°C to 30°C External Alarm Setup: Minor Alarm, Not Urgent or Urgent LVD Delay: 0.5s to 30s Maintenance DC Over Voltage Rectifier Fail LVD AC Fail Battery on Charge Battery on Discharge Control Unit Fail Open Breaker
Brief Alarms ²	Minor Alarm; Not Urgent; Urgent
Interface	RS232
Commands	Maintenance; Float/Equalize; LCD and test of LEDs
Functions	Management of 15 Rectifier Units Read electrical parameters Emit local and remote alarms Float voltage compensation for sealed batteries (default rate of -3.5mV/°C.Battery Cells) Automatic equalize voltage for non sealed batteries Shutdown rectifiers for AC fail LVD control Management of 3 external alarms Make commands, hardware configuration and adjust sensors through password

STANDARDS COMPLIANCE

Emission (EMI)	CISPR 22 – Class A
Immunity (EMC)	IEC 61000-4-2, -3, -4, -5, -6 and 11

ENVIRONMENTAL

Temperature	-10°C to 70°C with natural cooling
Humidity	0 to 95% R.H. non-condensing

1 – Configuration is only allowed by typing the password (“AAAAAA” with capital letters). After installation, we suggest the change of this password and we also recommend doing the configuration by software instead of keypads in order to simplify the setup. The modifications in the configuration are going to be saved in the flash memory after 8 minutes.

2 – The remote alarms are emitted by 0V signal through PNP transistor (source current up to 200mA).

