

**ROLESAN Multi™
DC Supply System
Model Number: ASC ATU Multi Rack
Datasheet**

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GENERAL SYSTEM INFORMATION

ASC ATU Multi Rack is a unit for switching between ROLESAN Multi or MultiMax family chargers when required redundancy in MV Switching Centers.



- *User Friendly Interface*
- *Wide Graphical LCD*
- *Monitoring of Output Voltage of Charger 1*
- *Monitoring of Output Voltage of Charger 2*
- *Automatic Test Mode*
- *Automatic Test Duration Setting*
- *Monitoring of Status of Charger 1*
- *Monitoring of Status of Charger 2*
- *Setting of Failure Detection Time*
- *Min / Max DC Voltage Values of Charger 1*
- *Min / Max DC Voltage Values of Charger 2*
- *19" Rack – Easy Installation*



ASC ATU MULTI RACK is a switching unit for any MV Switching Centers needs redundancy and required chargers work in parallel. In case of any failure in a charger, ASC ATU automatically switches to the 2nd charger and let the system continue working properly.

For suitable swithing of the chargers, ASC ATU is designed with microprocessor with best response times.

Thanks to its easy to use design structure, It can adopt any ASC Multi and MultiMax series and easy Installation to Rack systems.

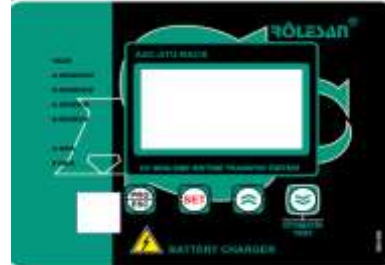


CONTROL UNIT

ASC ATU MULTI RACK has a control unit with included 7 notification LEDs, navigation buttons and Wide graphical LCD for user friendly interface.

System parameters are easy to monitor via its control panel. These parameters;

- a. Ready LED
- b. 1st Charger AC Input Connection Check
- c. 2nd Charger AC Input Connection Check
- d. 1st Charger Is in Use
- e. 2nd Charger Is in Use
- f. 1st Charger Failure
- g. 2nd Charger Failure



- ASC ATU MULTI RACK provides audible and visual warnings according to the set parameters via LED's,

Ready Led:	LED will be on, If the unit is working properly.
1st Charger AC Input Check:	LED will be on, If there is proper AC connection of Charger1.
2nd Charger AC Input Check:	LED will be on, If there is proper AC connection of Charger2.
1st Charger DC Output Check:	LED will be on, If there is proper DC Output connection of Charger1.
2nd Charger DC Output Check:	LED will be on, If there is proper DC Output connection of Charger2.
1st Charger Failure	LED will be on, If Charger1 has a problem.
2nd Charger Failure	LED will be on, If Charger2 has a problem.

- ASC ATU MULTI RACK, included a service port for further upgrades in case of additional system requirements.
- ASC ATU MULTI RACK, included a PRG/ESC button to reach the settings.
- ASC ATU MULTI RACK, included a SET button, to change the settings.
- ASC ATU MULTI RACK, included navigation buttons to sweep inside the settings.
- **NOTE:** Down navigation button is used for operating the Auto Test Function while in Main screen.

Main Screen

1st Charger Output Voltage	RED A	26.7
2nd Charger Output Voltage	RED B	20.0
Automatic Test Function - Test Duration	TEST (SN)	10.0
Failure Delay Time	HATA (SN)	10.0
1st Charger Status	RED A OKEY	
2nd Charger Status	RED B OKEY	

RED A: Shows the 1st Charger output voltage.

RED B: Shows the 2nd Charger output voltage.

TEST (SN): Shows the total test duration.

HATA (SN): Shows the failure delay time.

RED A OKEY: Shows the status of 1st Charger.

RED B OKEY: Shows the status of 2nd Charger.

Pressing PRG/ESC button will let you to enter settings page.

1st Charger Max. DC Voltage	RED A MAX VDC	32.0
1st Charger Min. DC Voltage	RED A MIN VDC	18.0
2nd Charger Max. DC Voltage	RED B MAX VDC	32.0
2nd Charger Min. DC Voltage	RED B MIN VDC	18.0
Automatic Test Function - Test Duration	TEST SN	010
Failure Delay Time	HATA SN	010

RED A MAX VDC: Select with using down button and enter the 1st Charger Max Output Voltage while pressing the SET button. If Output voltage is higher than this, ASC ATU Multi Rack accepts it a failure.

RED A MIN VDC: Select with using down button and enter the 1st Charger Min Output Voltage while pressing the SET button. If Output voltage is lower than this, ASC ATU Multi Rack accepts it a failure.

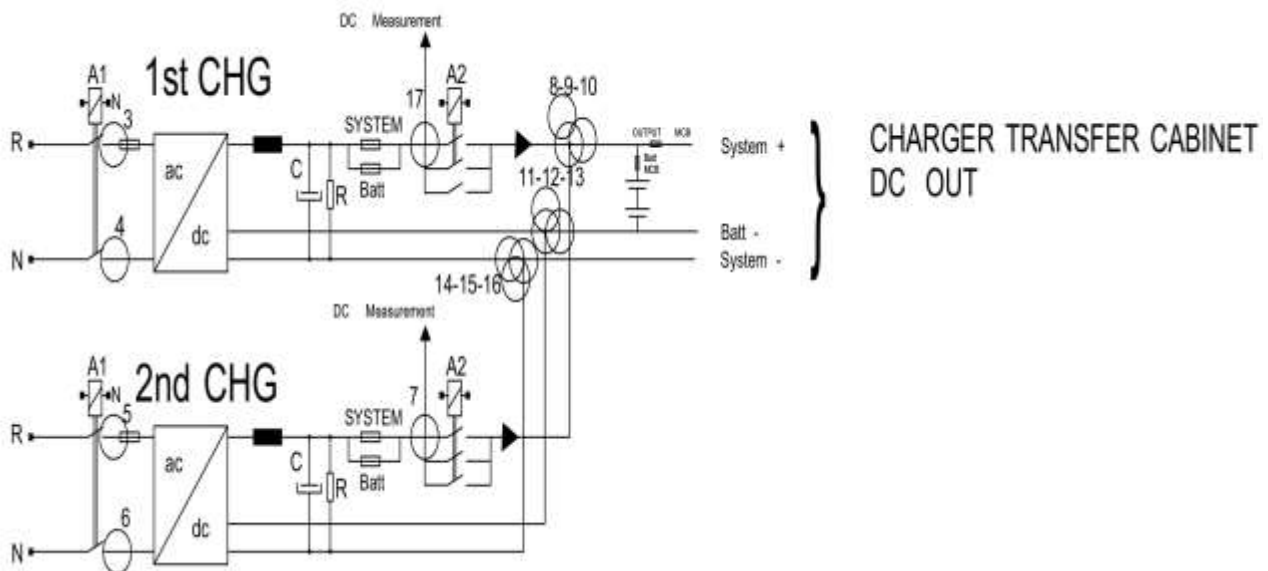
RED B MAX VDC: Select with using down button and enter the 2nd Charger Max Output Voltage while pressing the SET button. If Output voltage is higher than this, ASC ATU Multi Rack accepts it a failure.

RED B MIN VDC: Select with using down button and enter the 2nd Charger Min Output Voltage while pressing the SET button. If Output voltage is lower than this, ASC ATU Multi Rack accepts it a failure.

TEST (SN): Select TEST (SN) with using down button and enter the required total test time. This is the total time of testing of ASC ATU Multi Rack to operate connected chargers and check everything is ok.

HATA (SN): Select HATA (SN) with using down button and enter the time while pressing the SET button. If there is a problem on the main charger, ASC ATU Multi Rack will wait that much time to switch to the 2nd Charger automatically.

Connection



Master Charger

After powering ASC ATU Multi Rack, one of the chargers must be introduced as Master charger. After the ASC ATU Multi Rack and one of the chargers put into operation, "Down" button on the control unit must be pressed and let ASC ATU Multi Rack accept it is the master charger.

Automatic Test Function

ASC ATU Multi Rack has automatic test function. To start the automatic test, the following operations are performed.

- 1- In the main menu, press the "Down" button on the lower right of the control unit.
- 2- ASC ATU Mutli Rack checks whether there is any problem by measuring the outputs of the chargers connected to it, and the test process continues for the time entered in the TEST (Sn) setting.
- 3- After the successful test, ASC ATU Multi Rack disables the 2nd rectifier and continues to feed the system with the 1st rectifier.