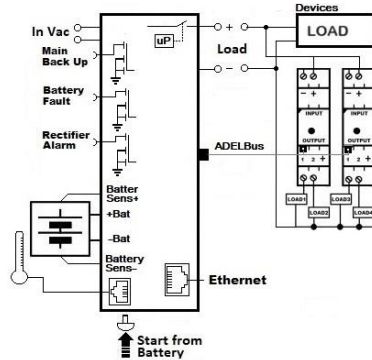
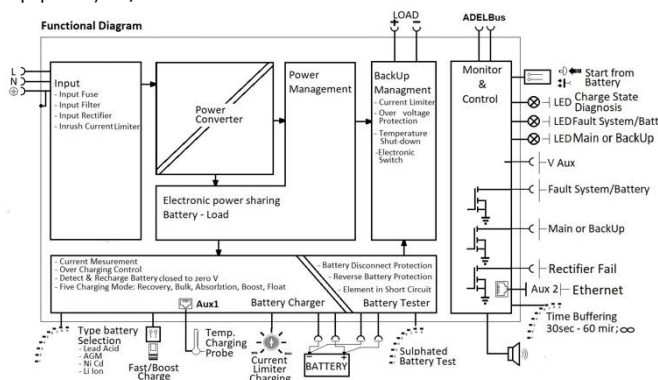


The image shows a white R/CONNECT RJU6012A network switch module. It features 12 RJ45 ports arranged in two rows of six. The top row of ports is labeled 1 through 6, and the bottom row is labeled 7 through 12. To the right of the ports is a power jack labeled 'Power In'. The front panel is blue with the R/CONNECT logo and the model number 'RJU6012A'. A QR code is visible on the bottom left of the front panel.



**Norms and Certifications:** The CE mark in conformity to EMC 2014/30/EU: Electromagnetic Compatibility Directive; 2014/35/EU: Low Voltage Directive; ROHS 2011/65/EU: Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS), as amended by 2015/863/EU. EMC Immunity: EN61000-6-2; EMC Emission: EN61000-6-3. According to: Electrical Equipment for Machinery EN 60204; Electrical safety (of information technology equipment) IEC/EN EN62368-1.



Charging curve IUoU, constant voltage and current  
Four charging levels: Boost, Bulk, Trickle, Recovery  
Protected against short circuit and inverted polarity  
Signal output: for battery Fault, Mains or Back-UP  
Ethernet: SNMP V3, Modbus TCP/IP, HTTPS  
DIN rail and Wall mount

|                                               |                     |
|-----------------------------------------------|---------------------|
| Ambient temperature (operation)               | -25 ÷ +70°C         |
| De Rating T <sup>a</sup> > 55°C               | - 2.5%(In) / °C     |
| Ambient temperature Storage                   | -40 ÷ +85°C         |
| Humidity at 25 °C no condensation             | 95% to 25°C         |
| Altitude: 0 to 2 000m - 0 to 6 560ft          | No restrictions     |
| Altitude: 2 000 to 6 000m - 6 560 to 20 000ft | De-rating 5°C/1000m |
| Cooling                                       | Auto convention     |

|                                      |             |
|--------------------------------------|-------------|
| Insulation voltage (IN/OUT)          | 3000 Vac    |
| Insulation voltage (input / ground)  | 1605 Vac    |
| Insulation voltage (Output / ground) | 500 Vac     |
| Protection Class (EN/IEC 60529)      | IP20        |
| Reliability: MTBF IEC 61709          | > 300.000 h |
| Pollution Degree Environment         | 2           |
| Protection class                     | II          |
| Dimensions (w-h-d) DIN 43880         | 70x90x55 mm |
| Weight (Approx.)                     | 0.40 kg     |

|                                                     |                  |
|-----------------------------------------------------|------------------|
| Nominal Input Voltage (2 x Vac)                     | 115 – 230 – 277  |
| Input Voltage range (Vac)                           | 90 – 305         |
| DC Input Range (Vdc)                                | 95 – 370         |
| Power Factor typ. (115 – 230 Vac)                   | 0.6 – 0.47       |
| Input Inrush Current Limiter                        | NTC              |
| Inrush Current (Vn – In nom. Load) I <sup>2</sup> t | ≤ 10 A ≤ 5 msec. |
| AC Frequency                                        | 47 ÷ 63 Hz       |
| DC Frequency                                        | 0 Hz             |
| Input Current (115 – 230 Vac)                       | 1 – 0.7 A        |
| Internal fuse (not replaceable)                     | 4 A              |
| External Fuse (recommended) MCB curve B             | 6 A              |

| <b>Input Current (No Load and Alarm)</b> | <b>Input 110Vac</b> | <b>Input 230Vac</b> | <b>Back Up</b> |
|------------------------------------------|---------------------|---------------------|----------------|
| Quiescent Current                        | 20                  | 34                  | 27             |
| Ethernet Enabled                         | 22                  | 34.5                | 33.5           |
| CAN Enabled                              | 21                  | 34                  | 30             |
| ETH+CAN Enabled                          | 23                  | 34.5                | 36.5           |

|                                             |                           |
|---------------------------------------------|---------------------------|
| Output Voltage 12 Vdc                       | 12 Vdc                    |
| Nominal current I <sub>n</sub>              | 4,5 A ± 5%                |
| Turn-On delay after applying mains voltage  | 1 sec. (max)              |
| Start up with Strong Load (capacitive load) | Yes, Unlimited            |
| Efficiency (at 50% of rated current)        | ≥ 83 %                    |
| Ripple and Noise (20 MHz Bandwidth)         | 80 mV <sub>pp</sub> (max) |
| Dissipation power load max (W)              | 6                         |
| Start from Battery only, without main       | Push Button               |
| Short-circuit protection                    | Yes                       |
| Over Load protection                        | Yes                       |
| Over Voltage Output protection              | Yes (typ. 35 Vdc)         |
| Overheating Thermal protection              | Yes                       |

|                                                                           |                                       |
|---------------------------------------------------------------------------|---------------------------------------|
| Output voltage (at $I_n$ )                                                | <b>10 - 14.4 Vdc (17Vdc Ni-Cd)</b>    |
| Nominal Current $I_n$                                                     | <b>1.1 x <math>I_n \pm 5\%</math></b> |
| Continuous current (without battery) $I_{load} = I_n$                     | <b>5 A</b>                            |
| Continuous current ( With battery) $I_{load} = I_n + I_{batt}$            | <b>2 x <math>I_n</math></b>           |
| Max. Output Load (Main with Battery) $I_{load} = I_n + I_{batt}$ (4 sec.) | <b>3 x <math>I_n</math> max. (A)</b>  |
| Max. current Output Load (Back Up) $I_{load}$ (4 sec.)                    | <b>2 x <math>I_n</math> max.</b>      |
| Output On/Off                                                             | <b>Yes: Drive by Ethernet</b>         |
| Push Button –Terminal Input "Start from Battery without main"             | <b>Yes</b>                            |

## Battery Output

## Signal Output

## Signal Input

## Digital Input / Output

