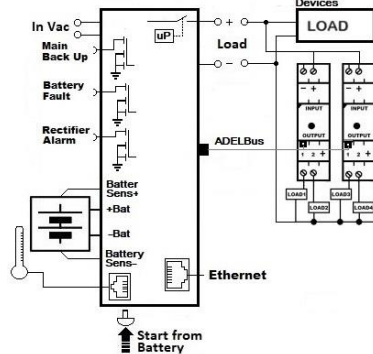


RJU6024A



Input: Single-phase 115 - 230 - 277 Vac
 Output Selectable Load: 24Vdc 2.5A
 Output Battery charging: 24 Vdc 2.5A
 Suited for the following battery types: Open Lead Acid, Sealed Lead Acid, lead Gel, Ni-Cd, Li-Ion
 Automatic diagnostic of battery status, Battery Life test function (internal Battery Impedance)
 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, Rectifier fail
 Ethernet: SNMP V3, Modbus TCP/IP, HTTPS
 DIN rail and Wall mount

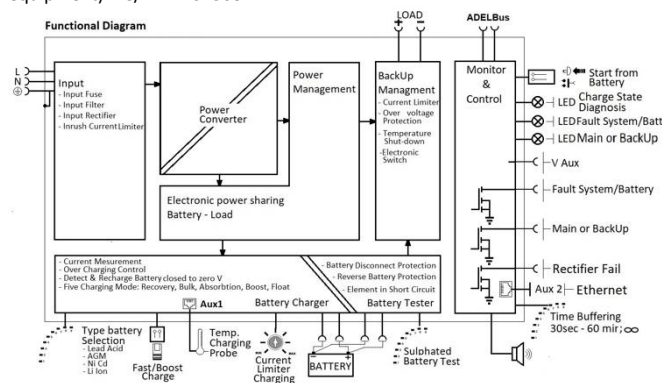
New revolutionary product, with Ethernet on Board provided with protocol connections: HTTPS, SNMPv3, Modbus TCP. The device also features the ADELSys protocol for connecting other RJ Connect System devices.

Power Management: Thanks to the All In One units (DC-UPS), it will be possible to optimize power management. The available power is automatically allocated between load and battery, supplying power to the load is the first priority of the unit thus it is not necessary to double the power, because also the power going to the battery will go to the load if the load so requires. The maximum available current on the load output is 3 times the value of the device rated current In.

Battery Care: it's the concept base on algorithms that implement rapid and automatic charging, four state of charge, battery charge optimization during time, flat batteries recovery and real time diagnostic during installation and operation. The Real Time Auto-diagnostic system, monitoring battery faults such as, battery Sulfated, elements in short circuit, accidental reverse polarity connection, disconnection of the battery, they can easily be detected and removed by help of Blink Code of Diagnosis Led; during the installation and after sell. The continuous monitoring of battery efficiency, reduces battery damage risk and allows a safe operation in permanent connection. Each device is suited for all battery types, by means of jumpers it is possible setting predefined curves for Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd(option). They are programmed for two charging levels, boost and trickle, but they can be changed to single charging level by the user. A rugged casing for DIN rail mounting, IP20 protection degree. They are extremely compact and cost effective.

Interconnections: The platform communication for ADELSys devices, allows the connection of all components in a simple but very powerful way, Ethernet. A protocol communication based on MODbus TCP/IP or SNMP technology. You can select any of the two buses depending on the application. It allows to communicate with all the accessories provided by ADELSys and to develop an independent system for electrical continuity. At the same time, it allows monitoring and control all parameters in the system, even from the other side of the world, by means of application tools on the cloud. ADELSys allows you to implement very simple but sophisticated monitoring and control for your energy system and opens your mind to new ways to approach your applications.

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.



Climatic Data

Ambient temperature (operation)	-25 ÷ +70°C
De Rating T ^a > 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

General Data

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
Connection Terminal	IEC
Protection class	II
Dimensions (w-h-d) DIN 43880	70x90x55 mm
Weight (Approx.)	0.40 kg

Input Data

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) I²t	≤ 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		
Input Current (No Load and Alarm)	Input 110Vac	Input 230Vac	Back Up
Quiescent Current	24.8	34.0	18.5
Ethernet Enabled	27.5	34.5	22.5
CAN Enabled	26	34.5	22.5
ETH+CAN Enabled	28.5	35	23.7

General Output Data

Output Voltage 24 Vdc	24 Vdc
Nominal current I _n	2.5 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 _{pp} (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

Load Output 24 Vdc (jumper selection)

Output voltage (at I _n)	22 - 28.8 Vdc (31 Vdc Ni-Cd)
Nominal Current I _n	1.1 x In A ± 5%
Continuous current (without battery) I _{load} = I _n	2.5 A
Continuous current (With battery) I _{load} = I _n + I _{batt}	2 x I _n
Max. Output Load (Main with Battery) I _{load} = I _n + I _{batt} (4 sec.)	3 x I _n max. (A)
Max. current Output Load (Back Up) I _{load} (4 sec.)	2 x I _n max.
Output On/Off	Yes: Drive by Ethernet

Battery Output

Signal Output (Open Collector)

Signal Input

Digital Input / Output

Mechanics Data

