

40 A, In 230 Vac, Out 24 Vdc, 100 Ah

ALM/S is a series of single-branch rectifier-battery charger (also known as BTU, Battery Tripping Unit), single-phase and three-phase input, and 24, 48 and 110 Vdc output.

The "single branch" technology involves the use of a single AC/DC converter, which both powers the loads and recharge the storage batteries; optimal solution for currents up to 20-30 A, and especially when powering loads with large inrush currents; thanks to the storage batteries in buffer of the converter module, it is possible to compensate for overcurrents of up to 15-20 In.

However, since the converter module must provide both the power supply to the users and the recharging of the batteries, correct sizing of the current of the module itself is necessary based on the loads with steady state operation and not taking into account the inrush; the correct choice allows the module to recharge the batteries without the risk of damage.

Applications

Auxiliary circuits of MV/LV substations Emergency lighting Industrial users Telecommunications systems

General features

Front panel LCD Display Compact cabinet Input isolation transformer (for three-phase input)

Code ALMS2440100

Rated Input voltage 230 Vac single-phase 50/60 Hz

Rated Output Voltage 24 Vdc, in presence and absence of network, the output

voltage follows the full charge and discharge of batteries 1,13x110Vdc with batteries full charged

0,9x110Vdc with batteries full discharged

Output voltage stability ± 1,5 % (in presence of netowork)

Ripple <1 % Current of load / batteries branch 40 A Power 960 W

Backup time 120 min at full load

Display

LCD Display on front panel with indication for: funzionamento da rete

- mains operation
- battery operation
- load branch output voltage and current
- battery branch voltage and current
- panel internal temperature
- signals for general fault, power failure and low battery voltage

Protection

3-pole switch disconnector with lock / door operation, properly sixed Storage batteries are protected by fuses

Batteries

Hermetic lead acid, expected life of 10 years, at an average temperature of 25°C, as prescribed by the manufacturer - batteries installed inside. no. 2 x 12V 100 Ah - total capacity 100 Ah

Cabinet

Enclosure

Sheet steel, painted with epoxy powders, color RAL 7035 (others on request). Degree of protection IP31 external, IP00 internal (IP20 with door open on AC parts)

Input of cables From the top

Dimensions / Weight (W*H*D) 462*1122*302 mm / 100 Kg

VentilationNaturalOperating temperature0 /+ 40°C

Humidity < 95% not condensing

Noise < 55 dB < 1000 m

Reference standards IEC62040-1, IEC62040-2 IEC62040-4, IEC62040-5-3



Available optional

Code KITALL

Kit Alarms; terminal board with voltage-free contacts for remote alarm of general fault, power failure and low voltage of batteries

Code KITSGB

Kit for disconnection of batteries at minimum voltage; in the absence of network beyond the required autonomy, the kit will disconnect the batteries, to prevent their complete discharge, which would irreversibly compromise their use

Code KITISI

Insulation control kit (earth pole) in case of short circuit or other malfunction.

Code KITPAR

Parallel kit; provision for connection of a system with equal characteristics for parallel operation.

Code KITEPO**

EPO kit (Emergency Power Off), with release button (bound to purchase also KITSGB)

Code KITMCB

Kit for MCBa on front panel (on request)

Functional diagram

