

Power

LES012STC48N

2 x 140W Low Profile Energy System



LES012STC48N low profile energy system

- › Very low profile: 0.5U — less than 1 inch thick
- › Fits in a 300mm deep cabinet
- › Integrated output distribution
- › Integrated battery connection and management
- › Integrated monitoring and control unit
- › Wide temperature operation for installation in harsh outdoor environments

If even 1U of height is not available in your cabinet, this versatile energy system for battery back-up might be the solution. Originally designed to operate in outdoor street sites, the system packs rectifiers, monitoring, battery connections, management and distribution in just 0.5U high.

The LES012 is perfect for installation of equipment in rural areas for smaller numbers of subscribers but will also meet the requirements for applications with severe space constraints.

The system operates at full power up to 60 °C with convection cooling. Its base-plate cooling technology allows operation on multiple cooling combinations when airflow is either limited or not available. This is also why the LES012STC48N power shelf can be mounted vertically and so will be very perfect for wall or pole-mounted applications.

LES012STC48N 48V Low Profile Energy System

Part number: LES012STC48N

Electrical

Input Voltage:207 to 253VAC
 Input Frequency:47 to 63Hz
 Input Current:1.5A @ 230Vac
 Efficiency:.....>85% typical, full load

Output voltage:.....-43 to -57Vdc
 Current output:5.2A @ -54Vdc

Power output*:280W
 * Constant output power between -43 and -57Vdc

Load regulation:±1%
 Line regulation:±0.1%

Performance / Features

Features:User configurable system settings
 User configurable alarms
 Battery test
 Battery low voltage disconnection (LVD)
 Temperature compensation of bus voltage
 Battery boost charge
 Alarms

Indicators:.....LED 1 - Urgent alarm
 LED 2 - Non urgent alarm
 LED 3 - AC fail
 LED 4 - LVD closed/battery test (flashing)
 LED 5 - monitoring OK

Protections:Mains out of range (input fuse)
 Output overvoltage
 Thermal shutdown
 Short circuit current
 Overload
 Battery reverse polarity
 Load and battery breakers (6A)

Mechanical

Dimensions:
 mm:.....22H (0.5U) x 535W x 253D
 inches:.....0.9H x 21W x 9.9D

Mounting:.....19" or ETSI

Weight:2.2kg (4.85lb)

Connections

Load:2 x 2 poles screw pluggable connector
 (0.08 - 1.5mm²)

Battery:.....2 poles terminal block (0.2 - 4mm²)

AC Input:3 poles terminal block (PE included)
 (0.2 - 4mm²)

Alarms:Cage Clamp Wago multisystems

Environmental

Temperature:
 Standard:.....-20 to 60°C (-4 to 140°F)
 Extended*:.....-20 to 70°C (-4 to 158°F)
 * de-rated output power
 Storage.....-40 to 85°C (-40 to 185°F)

Humidity:
 Operating.....20 to 80% RH non-condensing
 Storage:10 to 95% RH non-condensing

Elevation:.....Up to 2500m (8200ft)

Cooling:Convection cooled

Standards

Safety:CE marked
 EN60950
 UL/CSA 60950 (designed to meet)

Environment:.....RoHS compliant
 IEC 68-2-27

EMC:see specifications sheet