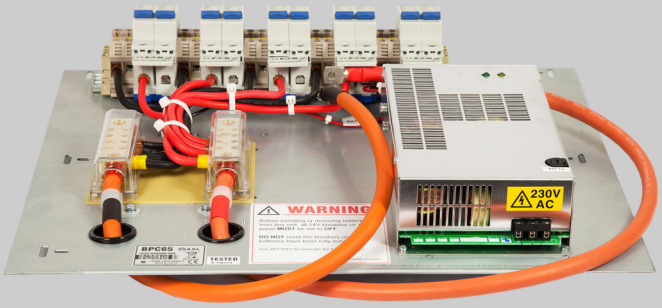
BATTERY CHARGER - 65AH



- EN 54-16 AND EN 54-4 COMPLIANT
- 24VDC 65AH BATTERY CHARGER
- 19" RACK MOUNT
- TEN DC OUTPUTS WITH CIRCUIT BREAKERS
- MAINS, BATTERY & CHARGER MONITORING
- BATTERY RESISTANCE MONITORING

OVERVIEW

The BPC65 is a self-contained 24V DC 19" rack mounting battery charger system for use with a 230V AC mains supply. When installed with batteries the unit provides up to 65Ah of battery capacity, with a 3.25A recharge rate from the built-in charger unit, and with the charge voltage being temperature compensated to maximise battery life. Batteries and accessories are supplied separately.

Certification

The BPC65 is designed to comply with EN 54-16, ISO 7240-16 and BS 5839-8, and is fully monitored to the requirements of EN 54-4 and BS 5839-8, including monitoring for a high battery resistance in order to predict that the batteries are approaching their end of life. The fault indication is via LED indicators and a change-over relay fault output.

Components

The BPC65 comprises of one tray fitted with 10 miniature breakers and one charger module, requiring a minimum of 3U rack space. 8U of rack space when integrated with batteries. The unit is designed to fit into racks with 600 mm or 800 mm depth, with an appropriate accessory battery tray being selected for the rack type which is being used.

DC Outputs

The DC power outputs are connected to or disconnected from the attached systems by Miniature Circuit Breakers, with these being provided at the rear of the charger tray. As standard, eight 25A breakers and two 3A breakers are provided. The 25A outputs are normally used for connecting ASL Amplifier Mainframes while the 3A outputs are used with low current 24V DC powered equipment such as the ASL Voice Alarm Routers.

Certification

When installed in a Voice Alarm system designed in accordance with the ASL EN 54-16 & ISO 7240-16 System Design Guide (T-0667-0016) and configured as described in its user documentation, this equipment meets the requirement of EN 54-16:2008, ISO 7240-16:2007, BS 5839-8:2008, EN 54-4:1997, EN 54-4:1997/A1:2002 and EN 54-4:1997/A2:2006 At the time of the publication of this manual, only the BPC65 battery system for Schroff 800 mm Eurorack is EN54-16 and EN 54-4:1997+A1:2002+A2:2006 certified.

Please refer to ASL manuals for further details.

SPECIFICATION

Supply Voltage

AC Supply Voltages ..... 230 V ±10% RMS 50Hz AC
Inrush Current (max) ..... 40 A
Maximum AC VA Rating (max) ..... 253 VA
AC Supply Fuse Rating T3.15A IEC60127
Output Voltage ..... 27.3 V (@ 20°C)
Charger Output Fuse Rating..... 7.5 A (mini blade type fuse)
Lowest voltage to which the battery can be discharged...21 V
Rated Continuous Maximum Output Current (Imax. a) 1.75 A
Rated Maximum Output Current (Imax. b)... ..... 5 A
Minimum Loading of the Equipment (Imin)... ..... 50 mA
Maximum value of internal battery resistance ..... 0.1 Ω

Charger Outputs

Charger Output Current ..... 3 A / Type C Mini Circuit Breaker
Battery Output Current ..... 25 A / Type C Mini Circuit Breaker
Supported Batteries ..... 2 x Yuasa NPL65-12 (VLRA)
Charge Time ..... 24 hours to charge to 100% capacity
Temperature Compensation ..... –36 mV/cell/°C
Fault Status Output .. volt-free relay contacts (N/O and COM)

Mechanical (Excluding the batteries)

Dimensions (H x W x D) ..... 80mm x 450mm x 385mm
Mounting ..... 19-inch rack mounting
Weight ..... 5.5 kg

Environmental (Excluding the batteries)

Operating ..... -10°C to +55°C
Storage ..... -20°C to +55°C
Humidity Range ..... 0% to 93% non-condensing
Ingress Protection ..... n/a

Safety and EMC

EMC ... EN 61000-6-4:2007, EN 61000-6-2:2005, EN 50121-4:2006, EN 61000-4-13:2002,
EN V50204:1995, EN 50130-4:1996
Safety ..... EN 60950-1:2006 (pollution degree 2)

PRODUCT PART CODES

BPC65 ..... Battery Pack and Charger - 65AH - EN54

COMPATIBLE HARDWARE

BPC130 ..... Battery Pack and Charger - 130AH - EN54
BPC65-BAT ..... Battery set - 65Ah 2 x 12V YUASA NPL65-12IFR
BTRAY65-SER600 ..... Battery tray for Schroff 600 mm Eurorack with retaining strap
BTRAY65-SER800 ..... Battery tray for Schroff 800 mm Eurorack with retaining strap
V400 ..... PAVA Amplifier Mainframe 400W

CE

This equipment is designed and manufactured to conform to the following EU Directives:

Electromagnetic Compatibility (EMC)):	2014/30/EU
Low Voltage:	2014/35/EU
Restriction of Hazardous Substances (RoHS):	2011/65/EU

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Assessed to ISO 9001

LPCB Cert No: 1043QMS