



Battery Charger

USES:

- Supplying charge voltages for most B&K battery-operated instruments
- Increasing operation time of instruments with rechargeable cells

FEATURES:

- Double-insulated charging unit

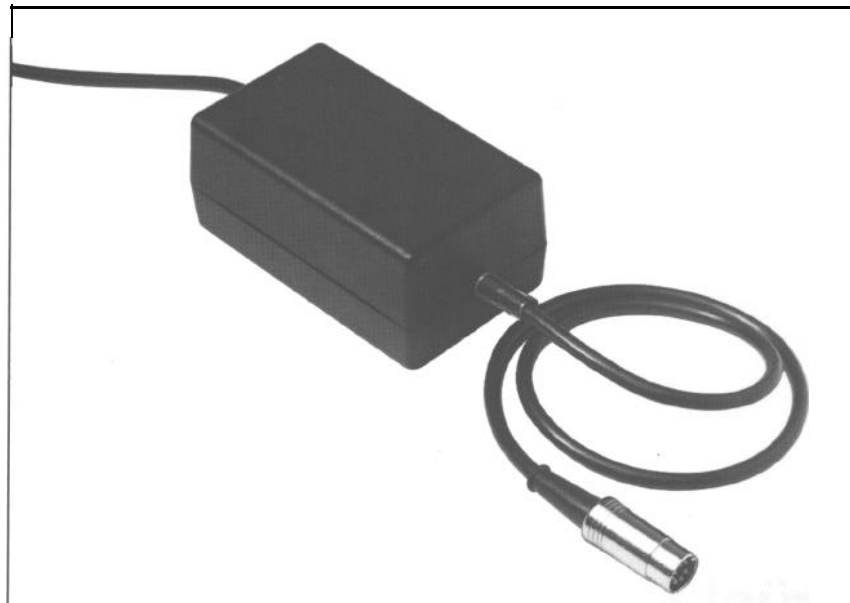
- Accepts line voltages from 100 to 240VAC, 50 to 400 Hz
- Supplies 12 V DC at 400 mA
- Short-circuit protected by thermal overload shutdown
- Conforms to IEC Safety Standard 348, Class II
- Integral mains cable and output cable
- Plugs directly into the appropriate B&K instruments

The Battery Charger ZG 0283 is a double-insulated mains-driven power supply. It provides a charge voltage of 12VDC at 400mA to many of the range of battery-operated B&K instruments. The ZG0283 has both an integral input and output cable. The output cable has a 7-pin DIN plug connected, which means that it may be plugged directly into the charging input socket of suitable instruments. All that is needed for charging is to connect the ZG 0283 to the mains power supply.

The ZG 0283 fulfils the requirements of IEC 348 Class II. It has no ground lead, but is double-insulated and short-circuit protected. In the event of a short-circuit or overload, two built-in PTC resistors will shut-down the power to the ZG 0283. The power is reconnected again after the short circuit or overload is removed. Under normal working conditions (400mA at 12 VDC), the ZG 0283 can operate continuously in ambient temperatures up to 55° C without the overload being tripped.

The time taken to recharge fully discharged Nickel-Cadmium cells depends on the charging resistor in the instrument which regulates the charging current. In some instruments the

charging current is 400mA, giving a charging time of max. 14 hours. The relevant Instruction Manual or Product Data Sheet should be consulted for further details.



If an instrument is fitted with well-charged NiCd cells and a mains supply is available, the ZG 0283 may be connected to the instrument and used to serve as an AC adaptor. In many cases the instrument will consume less power than the batteries gain from the charger, thus ensuring that the batteries will remain charged and ready for use for field applications.

In addition to supplementing the batteries as described, the ZG 0283

may also be used to power instruments which need less than 400mA at 12V. However, in this case, the pin connections of its DIN plug should be changed as necessary. For B&K instruments, this normally means disconnecting the lead from pin 3 and reconnecting it to pin 1.

The pin connections of the ZG 0283 are shown in Fig.1.

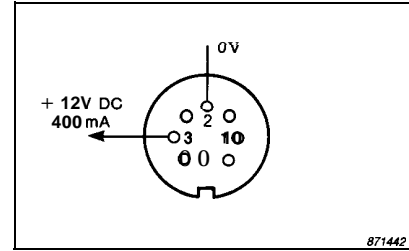


Fig.1. Pin connections of the ZG 0283 (external view)

Specifications ZG 0283

<p>CHARGE OUTPUT: Via 7-pin DIN plug Loaded Output: 12 V DC average at 400mA Open Circuit Output: Approx. 19 V DC average Recharge time: 14 hours maximum, depending on charge state of NiCd cells</p>	<p>MAINS INPUT: 100, 115, 127, 200, 220 or 240VAC (50 to 400 Hz). Conforms with safety class II of IEC 346 Power Consumption: Approx. 12VA at 400 mA</p>	<p>OPERATING TEMPERATURE RANGE: -10°C to +55°C (+14 to +131°F) Humidity: up to 90% RH (non-condensing) at 30°C</p> <p>DIMENSIONS: Height: 50 mm (1,97 in) Width: 110 mm (4,33 in) Depth: 65 mm (2,56 in) Weight: 0,75 kg (1,65 lb)</p>
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