MANPACK CHARGER PZU-4



Purpose:

the manpack charger PZU-4 is designed for charging of a wide range of the batteries of low-power portable radio stations, excluding damage of the battery due to an operator's error.

Advantages:

the manpack charger «PZU-4» is a four-channel charger with a software control, designed in a case, which provides convenient carrying of the charger.

The manpack charger PZU-4 provides:

• simultaneous charge/ discharge of up to four batteries of different types;

• battery charge and discharge in the following modes:

a) nominal mode:

discharge current 0,2Сн, A, where Сн – a battery rated capacity;

charge current 0,1Сн, А;

b) accelerated mode:

discharge current 0,2Cн, A;

charge current 0,2Сн, А;

c) fast mode

discharge current 0,33Сн, A; charge current 0,33Сн, A;

d) peak mode

discharge current 1,0Сн, A; charge current 1,0Сн, A;

• peak charge current deviation ±5%;

• peak discharge current deviation ± 2 %;

• automatic setting of charge and discharge parameters (according to the battery type and selected mode);

• discharge automatic completion at the voltage across the battery 10±0,5 V;

• charge of strongly discharged batteries (the battery current voltage - from 7, 3 till 10 V) with a displayed message about the battery deep discharge;

charge completion audio alarm;

• short-circuit protection in storage circuit with a displayed message and audio alarm in charge/ discharge mode;

• battery open-circuit protection with a displayed message and audio alarm in charge/ discharge mode;

• displayed information:

battery type;

cycle state (charge/discharge);

operation mode;

current and и charge voltage;

battery capacity, returned during battery discharging;

battery capacity, accumulated during battery charging;

time remaining till charge completion;

charge completion;

battery circuit failure (short circuit, open-circuit);

• operation mode restoration after power supply voltage shutdown within less than 30 minutes;

• connection indication;

• recovery and charge of the batteries, susceptible to discharge under accepted limit (deep discharge);

• opportunity of connection of 10NKGTS-1D, 10NKGTS-1,1, 10NKGTS-1,2, 10NKGTS-1,7, 10NKGTS-1,8, 10NKGTS-5, 10NKGTS-8,0, 10NKP-8, 10NKP-10, 10NKBN-3,5, 10V.KSM10R batteries and their complete analogues;

• opportunity of the chargeable batteries' types expansion by reprogramming of charge and recharge modes as well as using a flexible or optional battery switchboard or additional panel.



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Operation conditions:

The manpack charger PZU-4 provides reliable operation at the ambient temperature -10°C... +40 °C and relative air humidity up to 98% at the temperature 25°C (of the climatic version "humid microthermal climate", category 3, GOST standard 15150). Continuous and full - time operation mode.

The manpack charger PZU-4 operates with forced fan cooling with automatic adjustable speed.

The manpack charger PZU-4 is not designed for installation and operation in explosion hazardous and fire dangerous areas according to the technical code of common practice 339.

Requirements to power supply:

Power supply of the manpack charger PZU-4 is realized from AC mains with voltage $230V \pm 10\%$, frequency $50(\pm 1)$ Hz, or from on-board DC power supply of voltage 27(+3/-6) V.

Power consumption of the manpack charger PZU-4 is less than:

- 900 W DC power supply, rated voltage is 230 V;
- 120 W DC power supply, on-board power supply, constant voltage is 27 V.

Dimensions (WxHxD) – less than 580x367, 5x341 mm. Charger weight – less than 12,5 kg. Charger installation time – less than 1 min.

Serial production has been realized since 2015.

Note: Technical characteristics may be changed according to the Customer's requirements.





