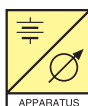


BATTERY RECONDITIONER BATGO

MEASUREMENT
AND MONITORING DEVICES



APPARATUS

MEDCOM

AC & DC POWER SOLUTIONS
TRACTION CONVERTERS



DESIGNATION

BATGO has been designated for controlled charging and discharging of the single battery cell or block of 2, 3 or 6 cells, causing quick renovation of them. BATGO can be applied during the battery operation (without disconnecting of the part under renovation).

DESCRIPTION

This device has been placed in a plastic, hermetic cast, resistant against mechanical shocks and atmospheric influences. It consists of the microprocessor controller, electronic power module and monitoring panel (LCD, keyboard and LEDs).

TECHNICAL PARAMETERS

Charging mode	$I = 0 \div 150 \text{ A}$ if $U \leq 2.7 \text{ V}$ $I = 0 \div 100 \text{ A}$ if $U \leq 5.4 \text{ V}$ $I = 0 \div 60 \text{ A}$ if $U \leq 8.1 \text{ V}$ $I = 0 \div 30 \text{ A}$ if $U \leq 16.2 \text{ V}$
Discharging mode	$I = 0 \div 150 \text{ A}$ if $U \leq 2.0 \text{ V}$ $I = 0 \div 60 \text{ A}$ if $U \leq 4.0 \text{ V}$ $I = 0 \div 40 \text{ A}$ if $U \leq 6.0 \text{ V}$ $I = 0 \div 20 \text{ A}$ if $U \leq 12.0 \text{ V}$
Voltage ripples	$\leq 1 \%$
Voltage measurement range	$1 \div 17 \text{ V}$
Charge measurement range	$0 \div 1500 \text{ Ah} \pm 1 \%$
Dimensions	$340 \times 300 \times 150 \text{ mm}$
Weight	10 kg



Charging and discharging current is limited by the total dissipation power 400 W.

Keyboard allows to set charging or discharging parameters (voltage and current) or to select one of 14 renovation programs placed in ROM. Several characteristics of the renovation programs are shown below.

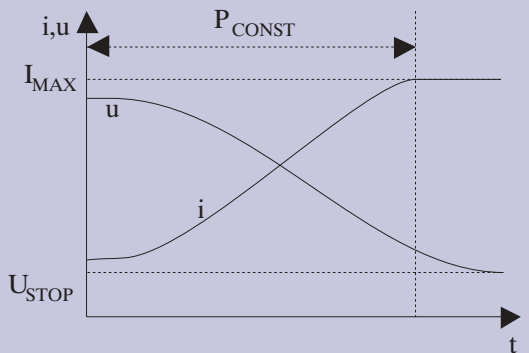
Renovation process may be reported to computer or printed. BATGO is equipped with set of silicon insulated cables (1.5 m long) placed outside of the housing.



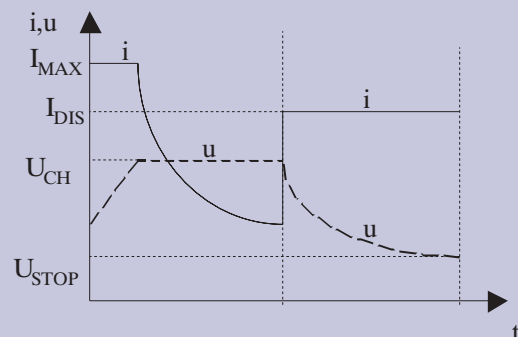
FRONT PANEL



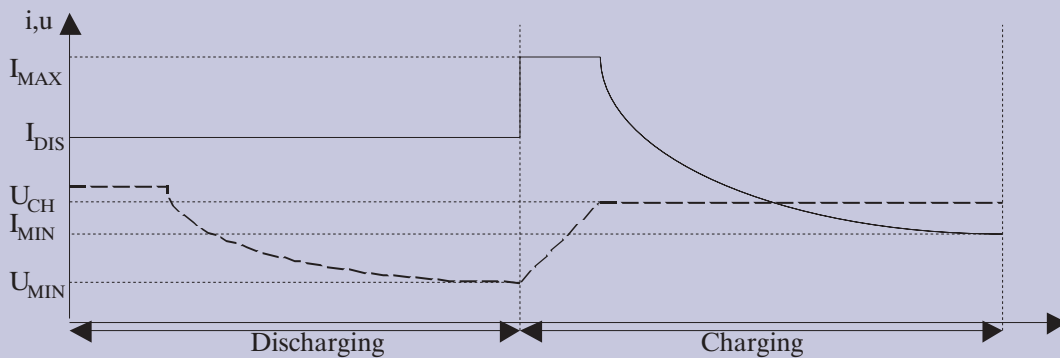
TYPICAL PROCESSES PROGRAMMED IN BATGO



Constant power discharging till U_{STOP} or limited in time (process no 10)



Charging limited in time next constant current discharging (process no 11)

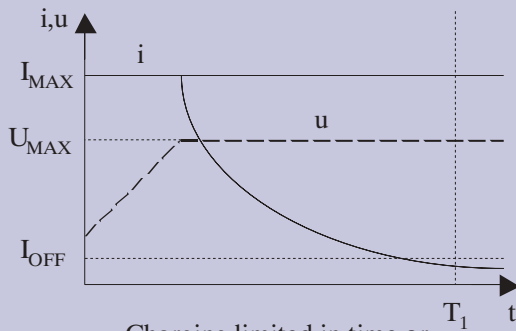


Constant current discharging, next charging till I_{MIN} reached (process no 13)

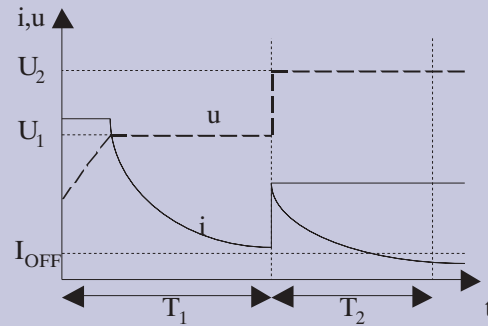
BATTERY RECONDITIONER BATGO



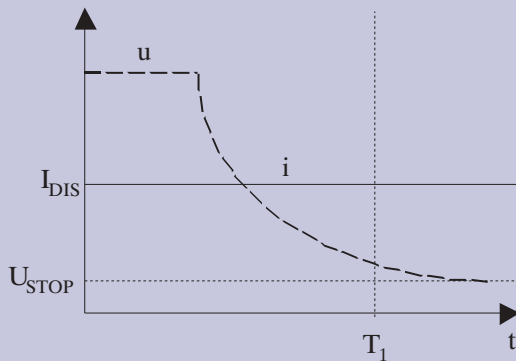
TYPICAL PROCESSES PROGRAMMED IN BATGO



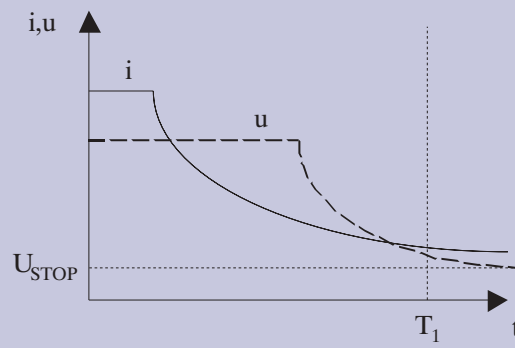
Charging limited in time or till I_{OFF} (process no 2)



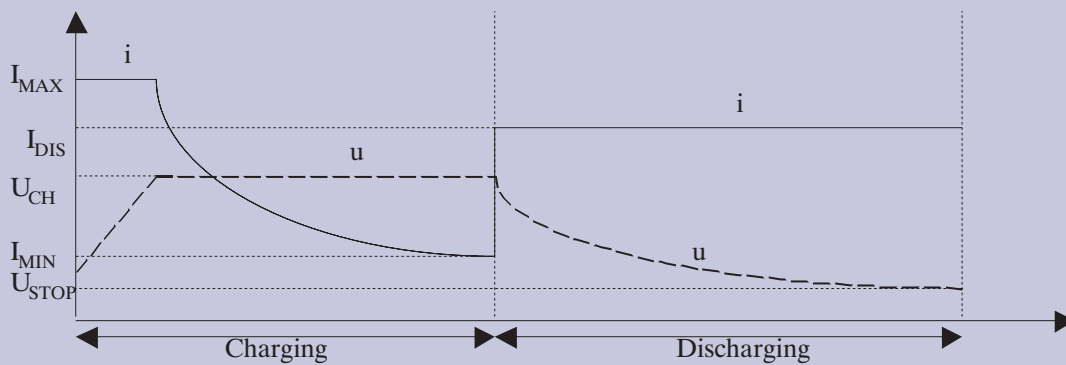
Charging with voltage switching, limited in time or till I_{OFF} (proc. no 4)



Discharging till U_{STOP} or limited in time (process no 6)



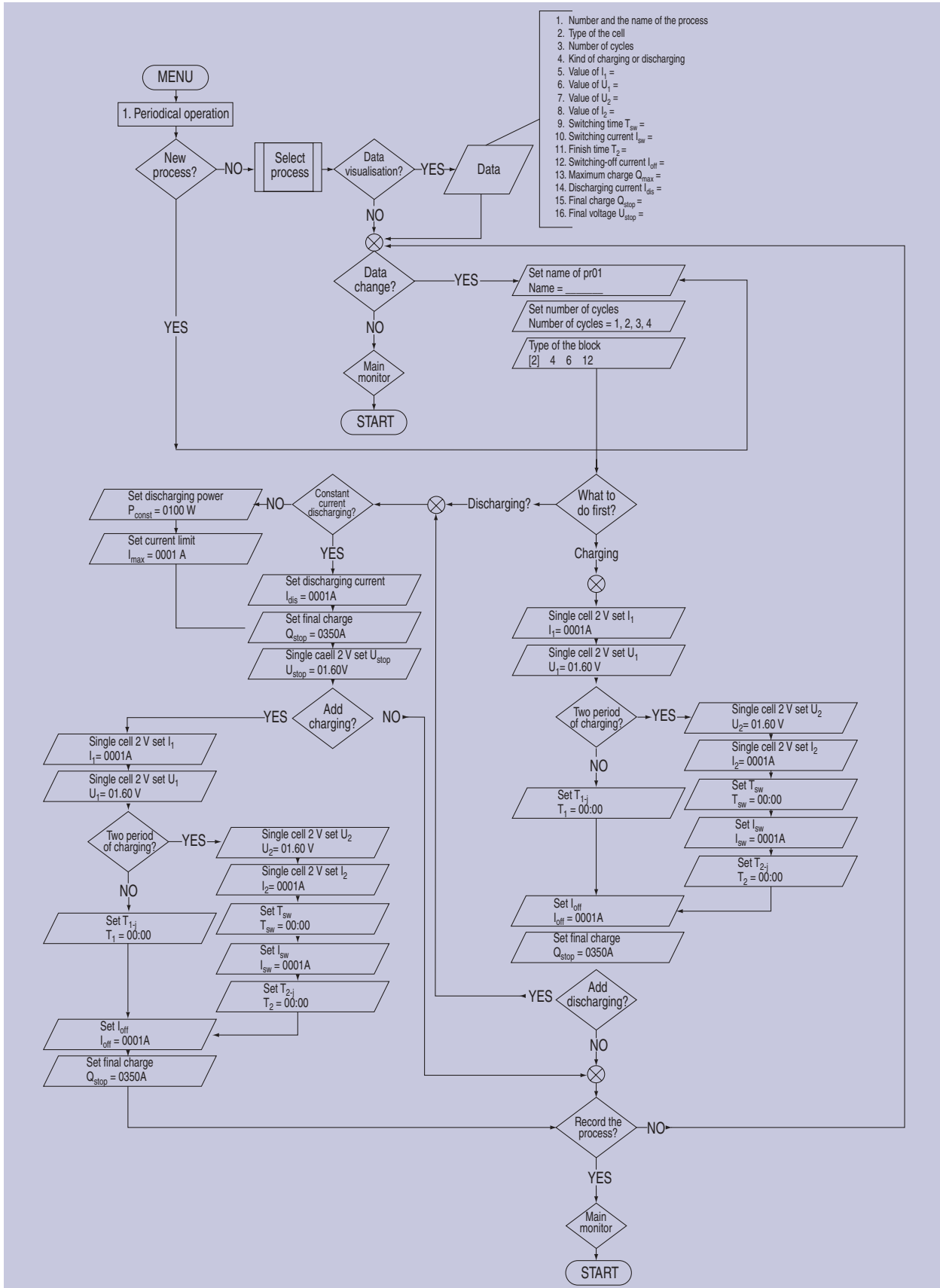
Constant voltage discharging to U_{STOP} or time limit T_1 (process no 8)



Charging till I_{MIN} next discharging to U_{STOP} (process no 12)



PROGRAMMING ALGORITHM FOR "PERIODICAL OPERATION"





AC & DC POWER SOLUTIONS TRACTION CONVERTERS

MEDCOM Sp. z o.o.

Founded in 1988, active in the design, manufacture, installation and servicing of modern electronic devices, aimed mainly at the power industry, military, railway and tramway transport, industry and health service customers. The use of latest technologies and system solutions, the services of highly experienced structural designers and the introduction of an ISO 9001:2000 Quality Assurance System, ensure that the devices manufactured are state-of-the-art and highly reliable. The technical design for all products is carried out in-house. In 2001 the company was awarded a prize The Polish President's Economy Award for THE BEST POLISH SMALL ENTERPRISE.

The most important products in the company's offer:

- DC power supplies
- Uninterruptible power systems
- High-voltage power supplies
- Power supplies (MIL standards)
- Static converters for railway and tramway applications
- Power supplies for industrial applications
- Power active filters
- Traction battery chargers
- Static transfer switches
- "Fail-safe" power supplies
- Motor driving systems: AC and DC motors
- Measurement devices: battery earth fault meters, battery operation monitors
- Wind power converters

MEDCOM Sp. z o.o.

28/30, Barska Street

tel. +4822 668 99 34, 668 69 84, 822 88 58

02-315 Warsaw, Poland

fax +4822 668 99 29

e-mail: info@medcom.com.pl

www.medcom.com.pl

Since we are constantly incorporating the latest technological advances, our products are subject to modification. For this reason it may happen that certain elements of the above descriptions are no longer valid.

