

2.1.

_____:

,

.

,

,

,

.

.

(200 - 500)

(5—10 s).

:

-

(200 – 500);

-

(0,002 – 0,010 Ohm);

-

(40 – 150 Ah)

;

-

;

-

;

-

,

;

-

;

-

.

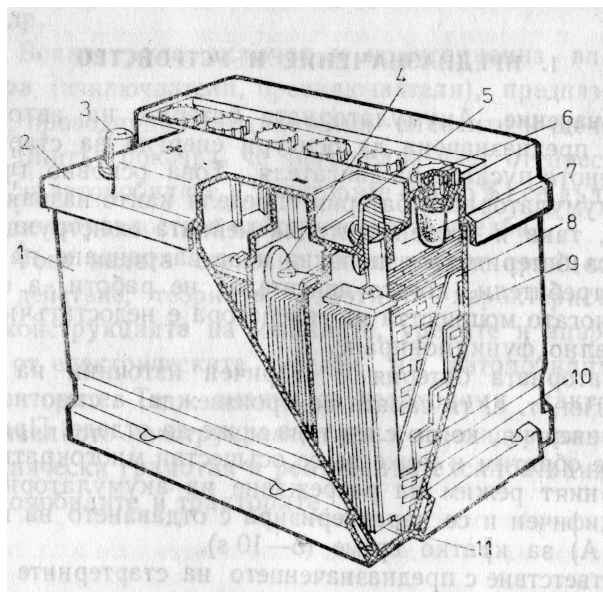
_____.

,

.

2 V.

12 V.



1- ; 2- ; 3- ; 4-
 ; 5-
 ; 6- ; 7- ;
 8- ; 9- ; 10-
 ; 11- .

— 1,8—2,5 mm.

(Pb₂)

(b)

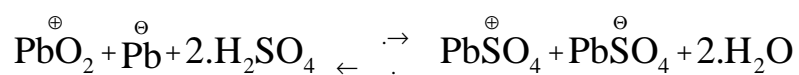
8.

H₂SO₄,

H₂O

1,28 g/cm³.

().



PbO_2 , - (Pb).

PbSO_4 H_2O .

$1,1 \text{ g/cm}^3$.

-

,

$1,28 \text{ g/cm}^3$.

1 A.h

3,66 g

.

,

.

- () E , V -

.

E

,

.

:

$$E = 0,85 + \rho,$$

, g/cm^3

15° .

$$= 2,13 \text{ V},$$

$$E = 1,96 \text{ V}.$$

- , A.h -

-

,

:

$$C = I \cdot t$$

I , A e

; t , h -

.

20-

25°

$$I = 0,05.$$

20

1,8 V

, , . ,

.

:) ;)

;) ;)

.

.

,

,

,

.

-

R_a , Ohm -

,

.

0,0001—0,01 Ohm

:

$$R_a = \frac{E}{15.C_{20}}$$

, V, ;

20, h e

.

.

-

U , V -

,

().

U

:

$$U = E - I.R_a$$

I , ,

; R_a , Ohm, e

+. .

-

W , J -

E , V,

Q ,

:

$$W = E.Q = E.C_{20}.3600.$$

-

-

,

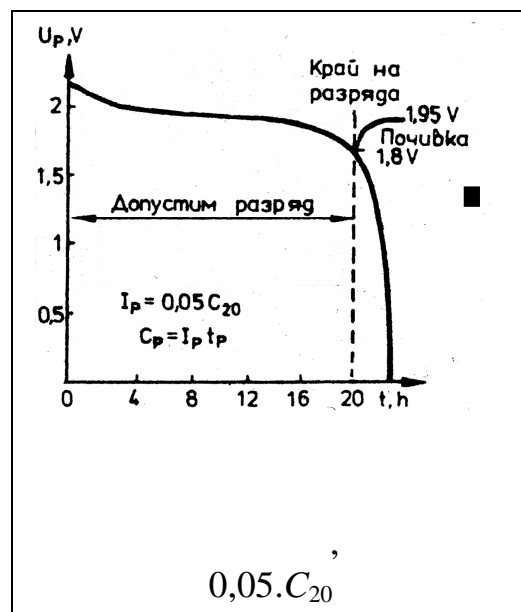
U_p ,

t

I_p .

1,28 1,11 g/cm³.

2,13 V 1,95 V,



U_p

-

1,8 V

i_p .

U ,

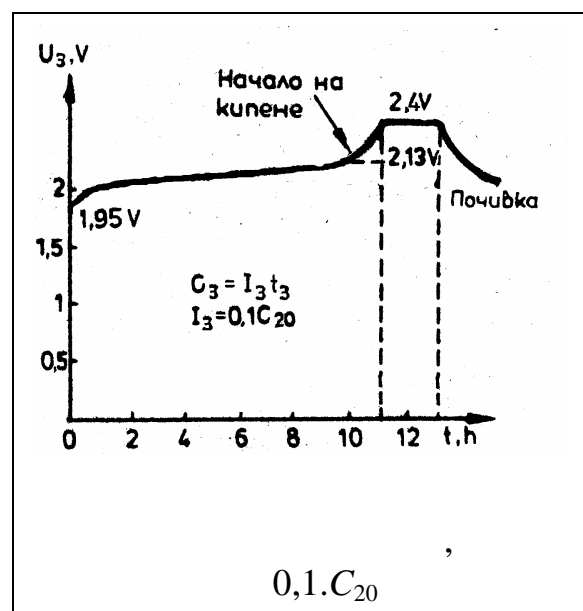
t

I .

1,11 1,28 g/cm³.

1,95

2,13 V,



0,33 V,

2,4 V.

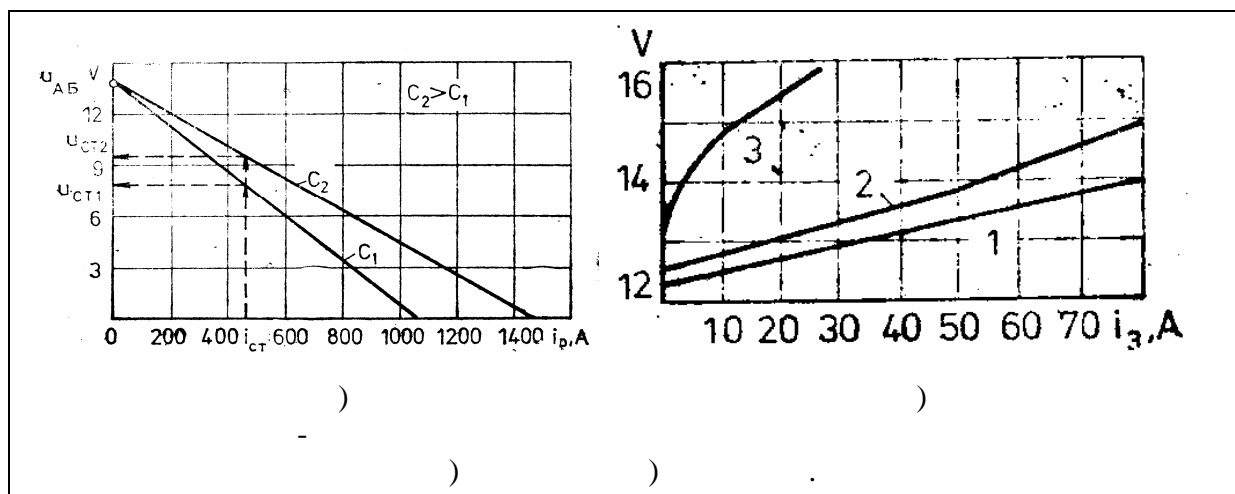
U ,

2,7 V.

1-2

I

20° 15—17,5



E .

$$I = \frac{U - U}{R}$$

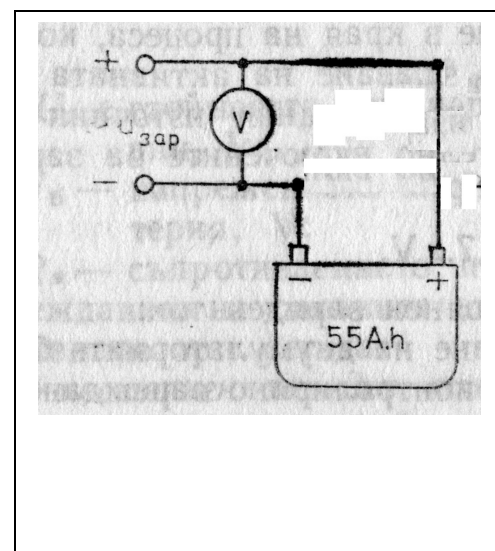
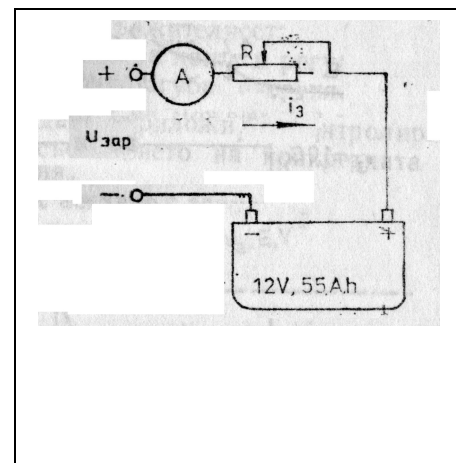
U , V; U — , V; R , Ohm.

R A U .
 U

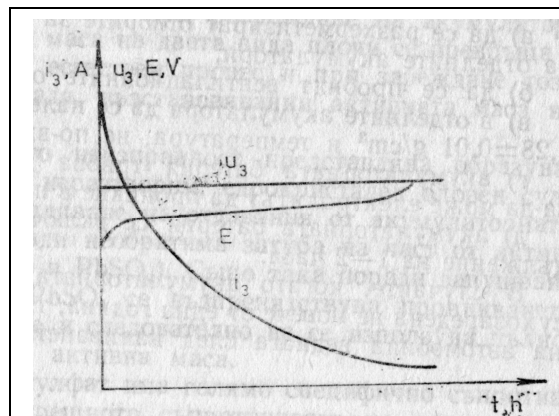
z :
 $U = 2,7.z, V$

U

$U = (0,10 \div 0,15).C_{20}, A.$



U 8,1 V 6-
 16,2 V 12-



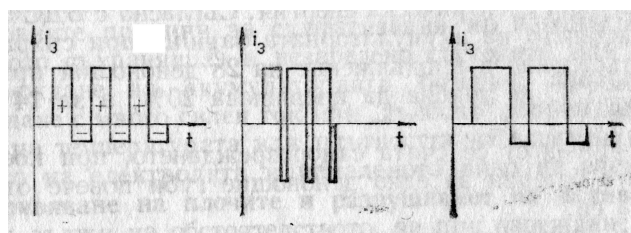
4—5

90—95%

:

;

;



.

-

-

_____.

,

.

,

,

,

:

,

,

15 V

-

,

-

1000 /V.

-

,

.

1,11 g/cm³

± 5

0,02 g/ m³,

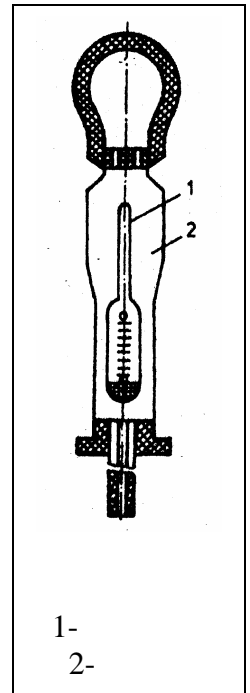
3—5 mm

10—15 mm.

10—15 mm.

1,28 g/cm³

25



1. Discover How Car Batteries Work – 4:14.

https://youtu.be/4IgHj2Uim_0

2. Deep Cycle Battery 101 manufacturing - OEM ending. 12:15

<https://www.youtube.com/watch?v=DFtepc9Tpmc>

3. How Lead Batteries are Made. 2:48.

https://www.youtube.com/watch?v=P7tOipB_-38

4. How its Made s8 ep4- Deep Cycle Batteries. 5:25.

<https://www.youtube.com/watch?v=o7EIKWFB5ls>

5. Animation Lead Acid. 2:31.

<https://www.youtube.com/watch?v=0TvYIJ06MXo>

6. Working Principle of Lead Acid Battery. 3:59.

<https://www.youtube.com/watch?v=HhxtfULIO7c>