

AC/DC DC/DC

20 1200

70%



.1 KD1200  
K-A, K-D

AC/DC DC/DC,



.2 50, 50

DC/DC

AC/DC – K-A

)

– K-D

[1].

KD

SM, KN, KR, KL, KP,

– K-D

1.

1.

– , K-D.

		U ,	U ,	I . ,	-		
SM20(30)-CL <sup>1</sup>	20,30	~115;	3,3; 5; 9; 12; 15; 24; 27; 48; 60 <sup>2</sup>	6	1, 2	102 51 19	0,465
KN50(60)-CL	50,60	~220;		8	1, 2, 3	126 57 22	0,62
KR100(150)-CL	100,150	24; 27;		20	1, 2, 3	133 94 37,5	0,79
KL300(400)-CL	300,400	48;		40	1, 2, 3	192 102 41	1,22
KP600(800)-CL	600,800	60; 110;		40	1, 2	238 128 43	1,87
KD900(1200)-CL	900,1200	220		40	1, 2	280 170 58	3,45

<sup>1</sup> –  
<sup>2</sup> –

; 3,3...60 .

20 1,2 .

KD1200

2.

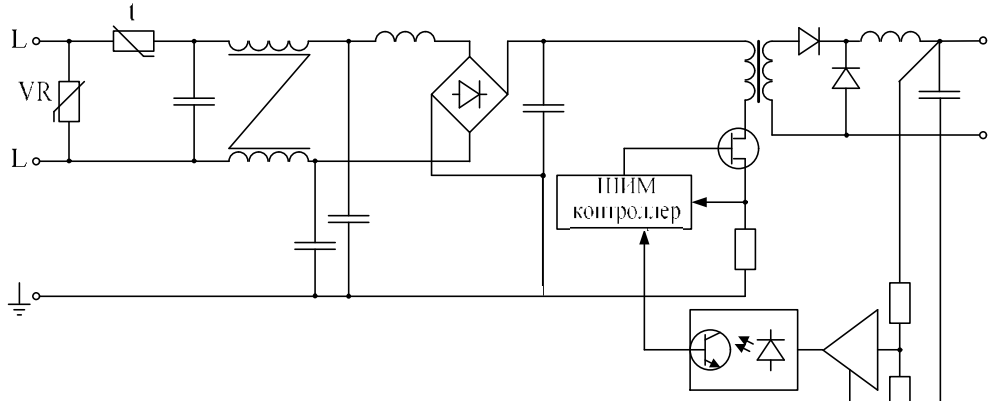
		U ,	U ,	I ,				
20-	( ) <sup>1</sup>	20	~115; ~220; 24; 27; 48; 60; 110; 220	3,3; 5; 9; 12; 15; 24; 27; 48; 60 <sup>2</sup>	4	1, 2	102 51 19	0,4 (0,4)
50-	( )	50			8	1, 2, 3	126 57 22	0,6 (0,55)
100-	( )	100			20	1, 2, 3	133 94 38	0,7 (0,7)
200-	( )	200			40	1, 2, 3	192 102 41	1,5 (1,2)
300-	( )	300			40	1, 2,3	192 102 41	1,5 (1,2)
600-	( )	600			40	1, 2	238 128 43	2,5 (1,9)
900-	( )	900		40	1, 2	280 170 58	4,3 (3,1)	

<sup>1</sup> - DC/DC

2 -

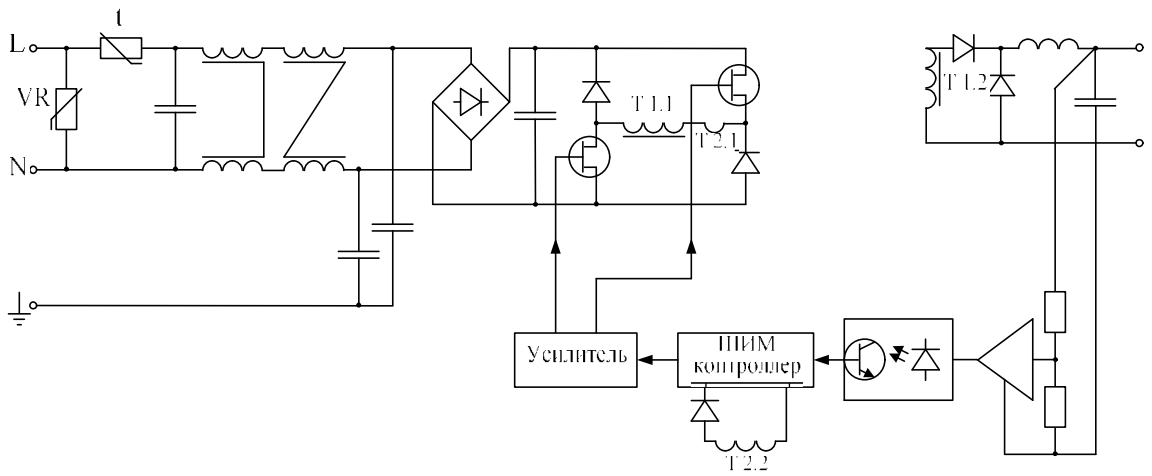
3,3...60 .

( .3, 4).



.3

20-60



.4

100-1200

3.

3.

- , -D,

	U , I ,	50	125
50	- AC/DC DC/DC (U = 220 ) - DC/DC (U = 110 )	1500	500
	/ 50 , .	500	

	500 / , / , /	20			
	U . . , I . . - ,	-10 -40		+70 +85	° °
	=25° - ,			93...95 98	%
	=70° - ,	50 100			.
	;				

		.	.	.	
	I . . . . . ,	~80 ~187 82 175 (126)	~115 ~220 110 220	~138 ~242 160 350	
(AC/DC)	U . . , I . .	45		440	

		.	.	.	
	I . . . . . I . . . , U . . . . . U . . . , / , 1- 2, 3- /			±2 ±10	% %
	U . . . . . U . . . /	10 30			% %
	I . . . . . I . . . , U . . . . . U . . . , / , 1- 2, 3- /			±3 ±13	% %
( - )	I . . . . . I . . . , U . . . . . U . . . , / , 1- 2, 3- /			2	%
	U . . , I . .		85		%

*	« . »				
-	« » 3,5...4,5 40				
	±10% U . . . . . . + 1, . - 1.				
	12 200				
	95° ,				
	1,15*U . . . . .				
	1,05...1,35*I . . . . .				
	,				

\*\_

60 .

- , K-D, MAA,

( .5).

( )900 ( )600. KD1200 KP800 - , K-D,

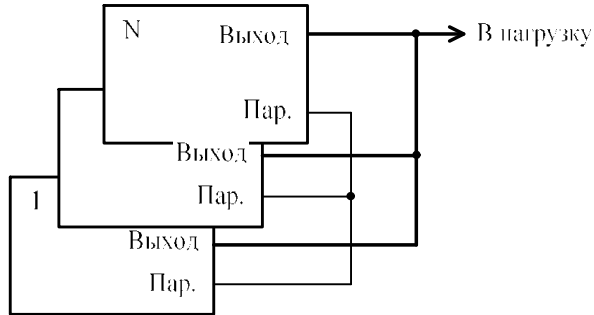


Рис.5 Нарастивание мощности (до 10 кВт и более).

[1]

70 °

- , K-D

85 °

$$= (1/ - 1), (1)$$

.6.

KN,

( )50 ( )100,150.

KR,

SM, ( )20 6%,

KL, KP, KD, ( )200,300, ( )900 8%.

S

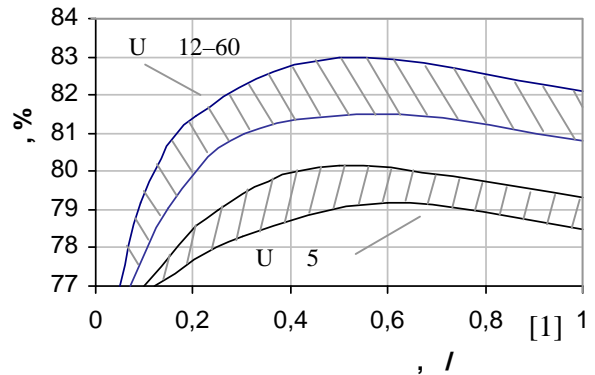
$$S = n/ \times (t_{max} - t - t ),$$

$$= 0,0005 - 0,003 / ^{2o} ,$$

t<sub>max</sub> = 70° ,

t<sub>max</sub> = 85° .

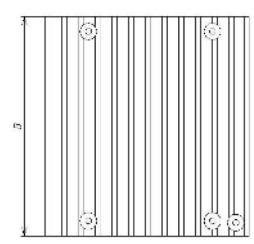
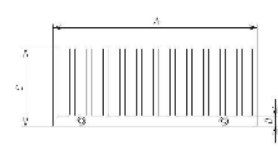
- , K-D



t 2...3° .

4. 26 46

				A*B*C*D ( )	S, ²	-
<b>26</b>						
DN400	.752695.400	KL, ( )200,300	102*190*26*6	1070	0,0009	
DG800, DB1200	.752695.401	KP, ( )600, KD, ( )900	122*238*26*6	1385		
<b>46</b>						
VS300	.752695.267, .752695.268	KL, ( )200,300	87*106*46*6, 122*106*46*6	2155	0,00067	
VB400	.752695.402, .752695.403	KP, ( )600	122*131*46*6, 122*131*46*6	3125		
	.752695.006	KL, ( )200,300, KP, ( )600, KD, ( )900	122*165*46*6	3925		



.7

.8

A\*B\*C\*D

900, 700, 50°

- $\Delta t = (1/\alpha - 1) \cdot 700(1/0,9 - 1) = 73,5$  ;
- $t = t_{max} - t = 85 - 50 = 35$  °C;
- $S = \Delta t / t$

$S = \Delta t / t = 73,5 / 35 = 2,1$  ;

$S = \Delta t / t = 73,5 / 35 = 2,1$  ;

$S = \Delta t / t = 73,5 / 35 = 2,1$  ;

.752695.006 46

50°

5.

	50° , , 2	
( )20	195	4
( )50	355	4
( )100	590	6
( )150	880	6
( )200	910	8
( )300	1365	8
( )600	2145	8
( )900	3275	8

( .6)

=0,001.

- , MAA K-D  
( ) [2] .9.

[1]

AC/DC

.10.

VN50, VR100, VS300, VB400  
VZ1200 [3].

DN400, DG600, DB1200,

VS300, VB400, DN400, DG600, DB1200

4.

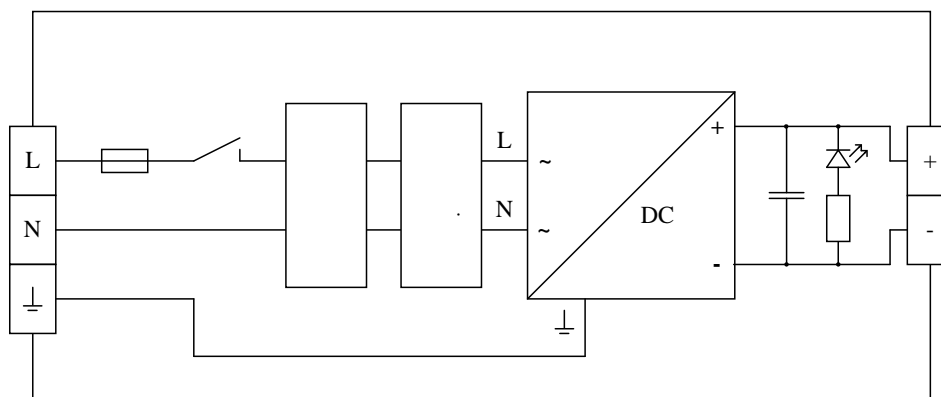


.9

VS300

DB1200

600 ( ).



.10

[4,5],

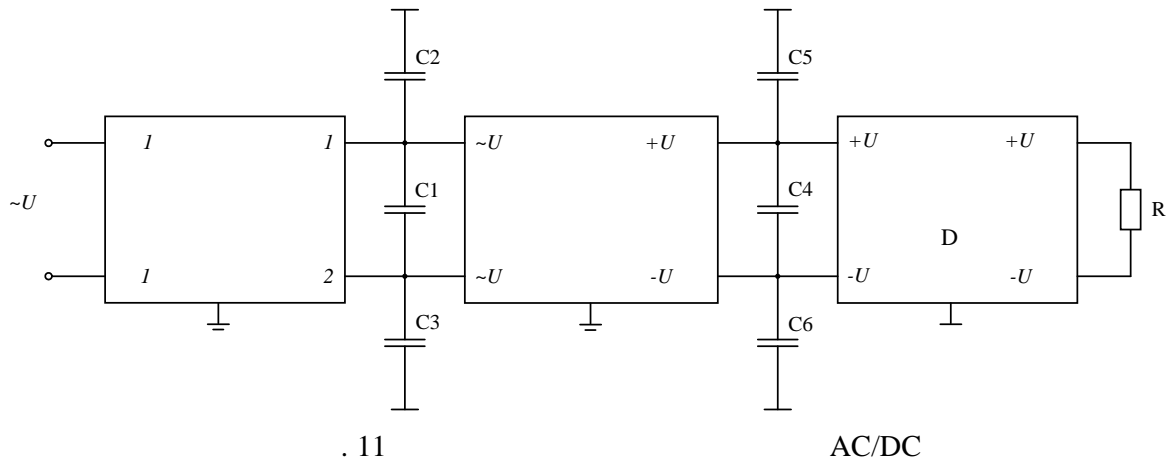
2

30429-96 (

25803-91).

.11.

DC/DC



«5»

« 20...900 1, 2, 3- 1500 -98».

500 , «5»

.436610.007 .

« 2000 » , «5»

2007 .

1. « » - 2006, .
2. . , . , . « ».
3. . , . , . « ».
4. . , . « ».
5. . , . « ».
6. . , . , « ».