



**50571.7.712—  
2013/  
60364-7-712:  
2002**

7-712

( )

I E C 60364-7-712:2002  
Low-voltage electrical installations —  
Part 7-712: Requirements for special installations  
or locations — Solar photovoltaic (PV) power supply systems  
(IDT)



и  
2014

50571.7.712—2013/ 60364-7-712:2002

1 «  
- ,  
( ) »  
4 ,  
  
2 8 337« \*  
  
3 6 2013 . 1383-  
  
4 60364-7-712:2002 «  
7-712.  
» (IEC 60364-7-712:2002  
«Electrical installations of buildings — Part 7-712: Requirements for special installations or locations — Solar  
photovoltaic (PV) power supply systems»).  
  
60364.  
  
5  
  
1 1.0—2012 ( ).  
— «  
( ) »,  
— «  
».  
—  
(gost. )

712.1	.....	1
712.2	.....	1
712.3	.....	2
712.30	.....	3
712.31 ,	.....	3
712.312	.....	3
712.4	.....	3
712.41	.....	3
712.411 ( ) .	( ) .....	3
712.413	.....	3
712.433	.....	4
712.434	.....	4
712.444	.....	4
712.5	.....	4
712.51	.....	4
712.511	.....	4
712.512	.....	4
712.52	.....	5
712.522	.....	5
712.53 ,	.....	5
712.536	.....	5
712.54 , ( ) -	.....	5
	.....	8

50571.7.712—2013/ 60364-7-712:2002

60364-7-712:2002 «

7-712:

«

»

60364.

1.

4.

4-1.

4-2.

4-3.

4-4.

5.

5-51.

5-52.

5-53.

5-54.

5\*55.

5-56

6.

7.

«

712

60364

712.413

60364-4-41:2005

60364-7-712:2002

411.3.2

60364-4-41:2001).

60364

«

50571.7.712—2013/ 60364-7-712:2002

7-712

( )

Low-voltage electrical Installations. Part 7\*712. Requirements for special Installations or locations. Solar photovoltaic (PV) power supply systems

— 2015—01—01

712.1

( )

1 « » « »  
 2 :  
 3 TK 82

712.2

8

60050 (826):2004 ( ). 826:

IEC 60050\*826:2004 International Electrotechnical Vocabulary — Part 826: Electrical installations  
 60364-1:2005 1.

IEC 60364-1:2005 Low-voltage electrical installations — Part 1: Fundamental principles, assessment of general characteristics, definitions

60364-4-41:2005 4-41.

IEC 60364-4-41:2005 Low-voltage electrical installations — Part 4-41: Protection for safety — Protection against electric shock

60364-4-43:2001 4-43.

IEC 60364-4-43:2001 Electrical installations of buildings. Part 4-43. Protection for safety. Protection against overcurrent

60364-4-44:2007 4-44.

IEC 60364-4\*44:2007 Low-voltage electrical installations — Part 4-44: Protection for safety — Protection against voltage disturbances and electromagnetic disturbances

60364-5-51:2005 5-51.

IEC 60364-5-51:2005 Electrical installations of buildings. Part 5-51. Selection and erection of electrical equipment. Common rules

60364-5-52:2009 5-52.

50571.7.712—2013/ 60364-7-712:2002

IEC 60364-5-52:2009 Low-voltage electrical installations — Part 5-52: Selection and erection of electrical equipment — Wiring systems

60364-5-53:2002

5-53.

IEC 60364-5-53:2002 Electrical installations of buildings — Part 5\*53: Selection and erection of electrical equipment — Isolation, switching and control

60364-5-54:2002

54:

IEC 60364-5-54:2002 Electrical installations of buildings. Part 5: Selection and erection of electrical equipment. Part 54: Earthing arrangements, protective conductors and protective bonding conductors

60439\*1

1.

IEC 60439-1 Low-voltage switchgear and controlgear assemblies — Part 1: Type-tested and partially type-tested assemblies

/ 60755

no

IEC/TR 60755 General requirements for residual current operated protective devices

60904-3

3.

( )

IEC 60904-3 Photovoltaic devices — Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data

61215:2005

IEC61215:2005 Crystalline silicon terrestrial photovoltaic (PV) modules — Design qualification and type approval

712.3

712.1 712.2.

60050-826.

712.3.1

( ) (PVcell):

712.3.2

( ) (PV module):

712.3.3

( ) (PV string):

712.3.4

( ) (PV array):

712.3.5

(PV array junction box): ( ),

712.3.6

( ) (PV generator):

712.3.7

(PV generator junction box): ( ),

712.3.6

(PV string cable): ,

712.3.9

( ):

712.3.10

(PV DC main cable): ,

50571.7.712—2013/ 60364-7-712:2002

712.3.11 ( ) (PV inverter): , -

712.3.12 (PV supply cable): , -

712.3.13 (PV module): , -

712.3.14 ( ) (PV installation): , -

712.3.15 ( ) (standard test conditions (STC): , -

60904-3

712.3.16 (open-circuit voltage under standard test conditions.  $U_{oc\ STC}$ ): ,  $U_{xx}$ 712.3.17 (short-circuit current under standard test conditions/ $I_{sc\ STC}$ ): , (#<sub>3</sub>)

712.3.18 (DC side): ,

712.3.19 ( side): ,

712.3.20 (simple separation): ,

712.30 ,

712.31 ,

712.312 ,

712.312.2 — 60364-1 ,

712.4 ,

712.41 60364-4-41 ,

( 712.411 ( ) )

712.411.1 : 60364-4-41&lt; 414) ,

 $U_n$  ,

120

712.413 ,

712.413.1 60364-4-41 ( 411.3.2) ,

50571.7.712—2013/ 60364-7-712:2002

712.413.1.1.1.1

712.413.1.1.1.2

( ) 8. 60755.

60755,

712.413.2

||

712.413.3

712.413.4

712.433

60364-4-43

712.433.1

1.25  
712.433.2

1.25

— 712.433.1 712.433.2

712.434

60364-4-43

712.434.1

712.444

60364-4-44

712.444.4.4

712.5

712.51

712.511

60364-5-51 ( 511.1)

712.511.1

61215.

120

60439\*1.

712.512

60364-5-51 ( 512)

712.512.1.1

50571.7.712—2013/ 60364-7-712:2002

>

712.512.2.1

712.52

712.522

60364-5-52 ( 522)

712.522.6.1

712.522.8.3

712.53

60364-5-53

712.536

712.536.2

712.536.2.1.1

60364-5-55 ( 551.7)

712.536.2.2

712.536.2.2.1

712.536.2.2.5

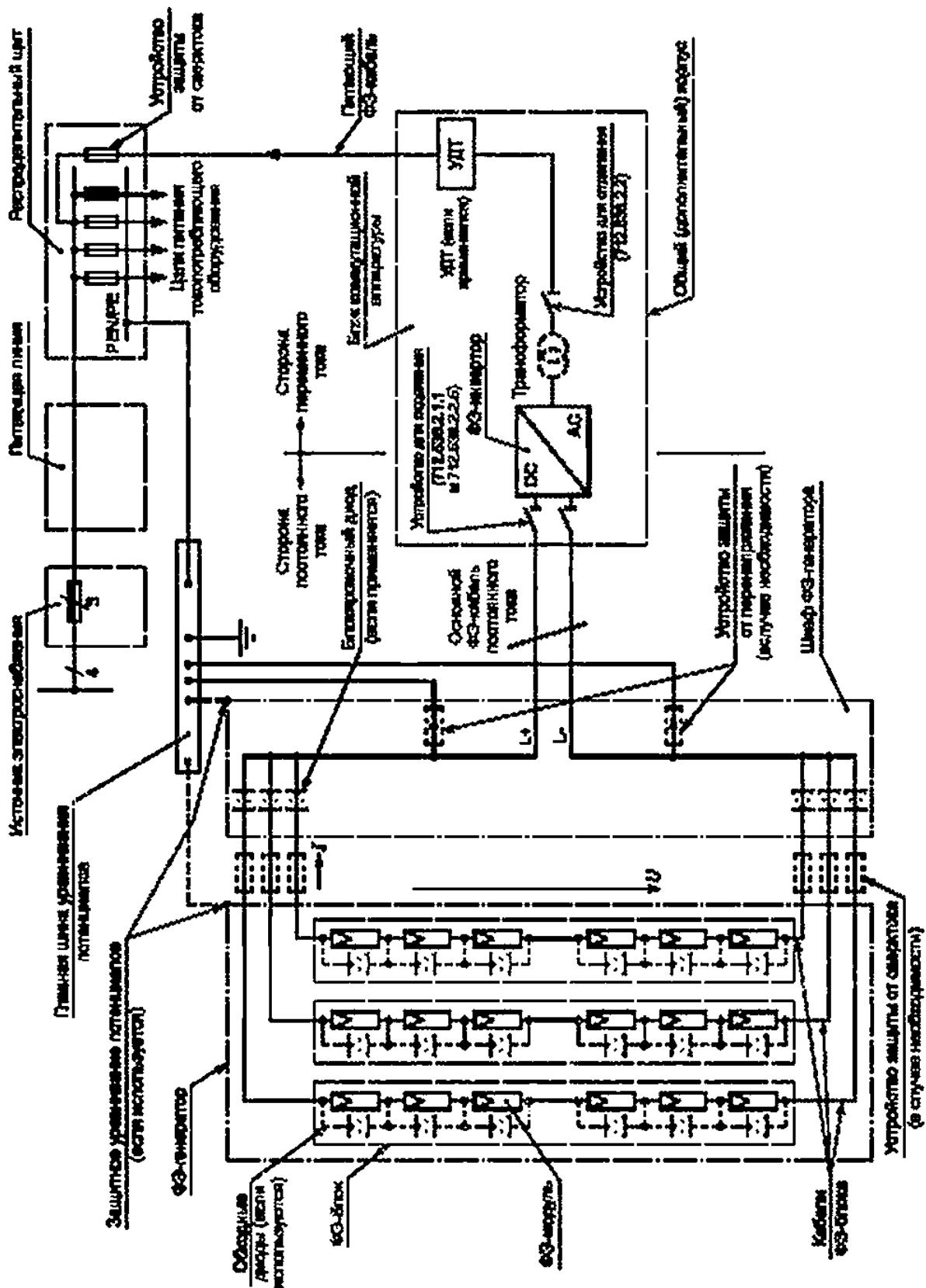
712.536.2.2.5.1

712.54

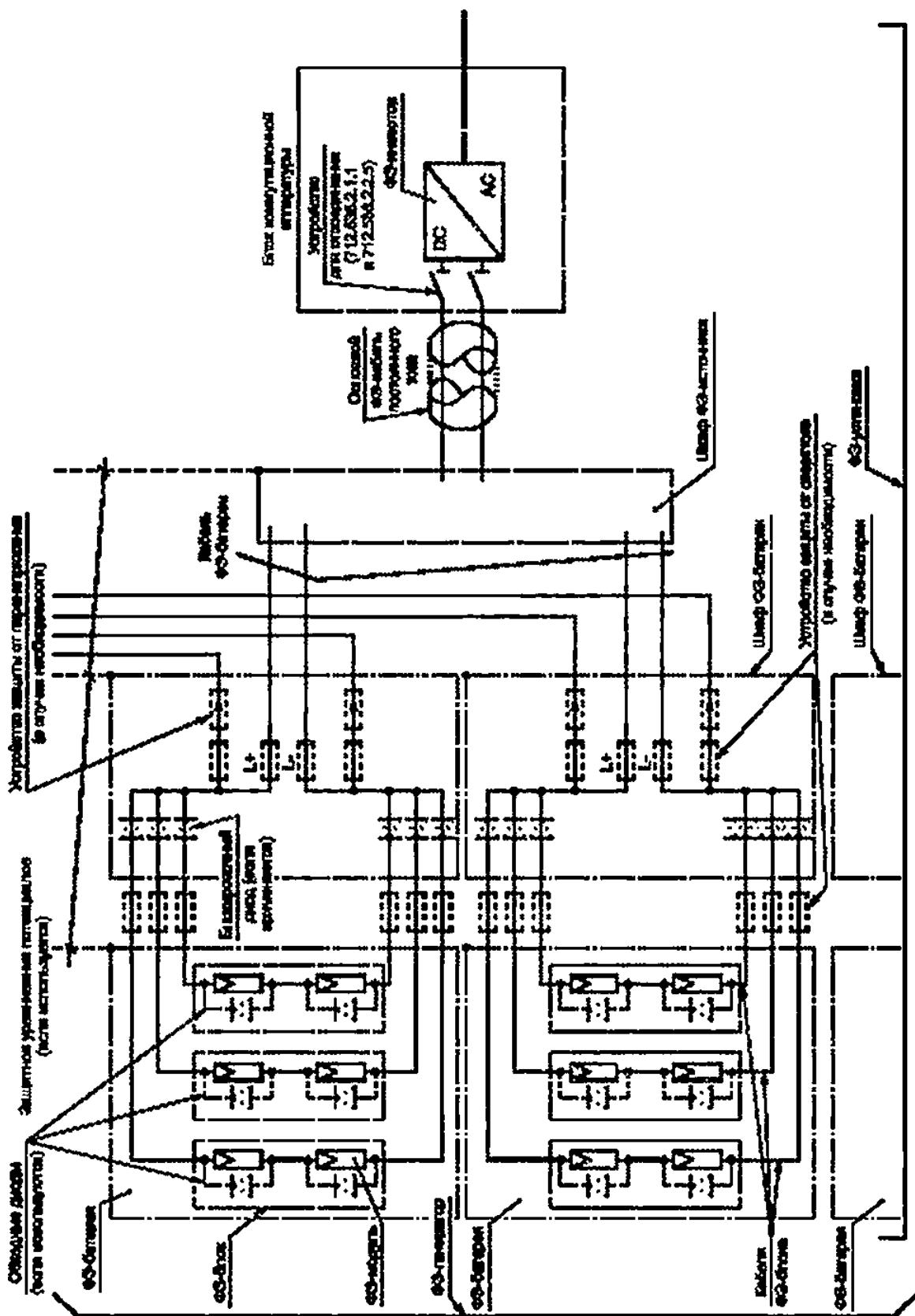
60364-5-54

50571.7.712—2013/

60364-7-712:2002



50571.7.712—2013/ 60364-7-712:2002



712.2 —

50571.7.712—2013/ 60364-7-712:2002

( )

.1

60050-826		60050-826—2009 « »
60439-1	MOD	51321.1—2007 ( 60439-1:2004) « 1. »
60364-1:2005	MOD	50571.1—2009 ( 60364-1:2005) « 1. »
60364-4-41:2005	IDT	50571.3—2009 ( 60364-4-41—2005) « 4-41. »
60364-4-43:2001		S0571.4.43—2012/ 60364-4-43:2008 « 4-43. »
60364-4-44:2007	MOD	50571-4-44—2011 ( 60364-4-44:2007) « 4-44. »
60364-5-51:2001	NEO	50571.5.51—2013/ 60364-5-51—200S « 5-51. »
60364-5-52:2009		S0571.5.52—2011 60364-5-52:2009 « 5-52. »
60364-5-53:2002		50571.5.53—2013/ 60364-5-52:2002 « 5-53. »
60365-5-55:2008	MOD	50571.29—2009 ( 60364-5-55:2008) « 5-55. »
/ 60755 (2008)	MOD	60755—2012 « » ( )
60904-3		
61215	—	
*		
		— 8
		• IDT — • — • NEO —

50571.7.712—2013/ 60364-7-712:2002

696.6:006.354                  27.160                  08                  34 3700  
                                  29.020  
                                  91.140.50

fl.

26.03.2014. 08.04.2014. 60 » 84^.

. . 1.86. - . 1.40. 84 . 670.

« 123905  
www.90slinfo.ru mfo@goslinfo.ru

, 4.