

OSGP Series Glass Fibre Reinforced Polyester Terminal Junction Box

TYPICAL TERMINAL LOAD CONFIGURATION

The below given theoretical values are calculated depending on typical configurations. In any terminal box, the maximum heat dissipation power must not be exceeded. Maximum current value for terminals must be calculated with choosing the right T class and maximum ambient temperature.

OSGP 1 (P max : 6.17W)

Current (A)	Cross section(mm ²)						
	2.5	4	6	10	16	25	35
5							
8							
10							
16	14						
21		12					
28			11				
37							
50							
60							
70							

OSGP 6 (P max : 18.03W)

Current (A)	Cross section(mm ²)						
	2.5	4	6	10	16	25	35
5							
8							
10	58						
16	22	35					
21		20	31				
28			17	27			
37				15	22		
50					12	16	20
60						11	14
70							10

OSGP 2 (P max : 9.78W)

Current (A)	Cross section(mm ²)						
	2.5	4	6	10	16	25	35
5							
8							
10	48						
16	18	28					
21		16	25				
28			14	22			
37				12			
50							
60							
70							

OSGP 7 (P max : 21.87W)

Current (A)	Cross section(mm ²)						
	2.5	4	6	10	16	25	35
5							
8							
10	57						
16	22	34					
21		20	30				
28			17	27			
37				15	22		
50					12	17	21
60						12	15
70							11

OSGP 3 (P max : 12.23W)

Current (A)	Cross section(mm ²)						
	2.5	4	6	10	16	25	35
5							
8							
10	47						
16	18	28	43				
21		16	25	39			
28			14	22			
37				12			
50							
60							
70							

OSGP 8 (P max : 23.34W)

Current (A)	Cross section(mm ²)						
	2.5	4	6	10	16	25	35
5							
8							
10	59						
16	23	36					
21		21	32				
28			18	29			
37				16	23		
50					13	18	23
60						12	16
70							11

OSGP 4 (P max : 14.89W)

Current (A)	Cross section(mm ²)						
	2.5	4	6	10	16	25	35
5							
8							
10	45						
16	17	27	42				
21		16	24	39			
28			13	22			
37				12			
50							
60							
70							

OSGP 9 (P max : 28.98W)

Current (A)	Cross section(mm ²)						
	2.5	4	6	10	16	25	35
5							
8	100						
10	64						
16	25	39	59				
21		22	34	56			
28			19	31	45		
37				18	26	36	
50					14	20	25
60						14	17
70							13

OSGP 5 (P max : 16.17W)

Current (A)	Cross section(mm ²)						
	2.5	4	6	10	16	25	35
5							
8							
10	53						
16	21	32					
21		18	28				
28			16	25	20		
37				14	20		
50					11	15	19
60						10	13
70							9

OSGP 10 (P max : 31.03W)

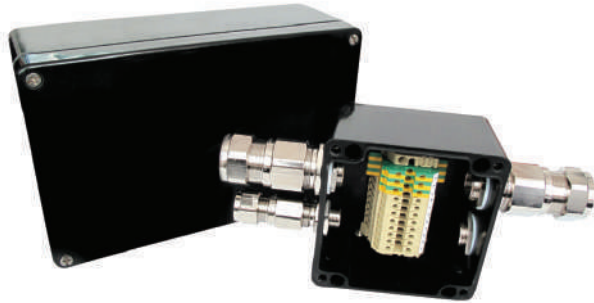
Current (A)	Cross section(mm ²)									
	2.5	4	6	10	16	25	35	50	70	95
5										
8	106									
10	67									
16	26	41	62							
21		24	36	59						
28			20	33	48					
37				19	27	39				
50					15	21	27			
60						14	18	23		
70							13	17		
95								9		
120									7	10
150										8

OSGP 11 (P max : 31.03W)

Current (A)	Cross section(mm ²)									
	2.5	4	6	10	16	25	35	50	70	95
5										
8	106									
10	67									
16	26	41	62							
21		24	36	59						
28			20	33	48					
37				19	27	39				
50					15	21	27			
60						14	18	23		
70							13	17		
95								9		
120									7	10
150										8

Any number of conductors and terminals additionally.
 To be engineered by the manufacturer.

OSGP Series Glass Fibre Reinforced Polyester Terminal Junction Box



- The material of OSGP is glass fibre reinforced polyester. Black color is only available with explosion proof.
- Cable Gland and Junction Box can be ordered at one house.
- Silicon gasket is applied for longer last.
- Intrinsic safety(Ex ia) can be applied.
- All accessories of Junction Box are available.
- Control Junction Box can be obtained at request. (Unit Certificate)

Technical Information

Compliance Standard	IEC/EN 60079-0/60079-7-60079-11/60079-31
ATEX Certification	Presafe 17 ATEX 11238X
IECEX Certification	IECEX PRE 17.0054X
Code of Protection	Ex eb IIC Gb, Ex tb IIIC T57°C/T72°C
Operating Temperature	-60°C ~ 110°C
Ambient Temperature	-60°C to +40°C for T6/T57°C -60°C to +55°C for T5/T72°C
Regulation	Zone 1,2 & 21,22, Gas Group IIA, IIB, IIC, Dust Group IIIA, IIIB, IIIC
Ingress Protection	IP66/67
Junction Box Material	Glass Fibre Reinforced Polyester(GRP)
Gasket Material	Silicon Rubber
Mounting	Integral 6mm clearance holes moulded into the body
Earthing	Optional M8 internal/external earth stud, brass or stainless steel
UV Protection	1000hr (IEC 60079-0 26.10)
Impact Resistance	7Nm(EN50014)
Color	RAL 9005 Black
Toxicity	Low Smoke Halogen Free V-0 Self-Extinguishing, UL94
Surface Insulation Resistance	10 ⁶ Ohm ≤ black ≤ 10 ⁹ Ohm UV Protection
Earth Plate	Optional at request
Raw Material	Sheet Molding Compound (SMC)

OSGP Series Glass Fibre Reinforced Polyester Terminal Junction Box

Physical maximum terminal capacity

TYPE	2.5 SQ	4 SQ	6 SQ	10 SQ	16 SQ	35 SQ	50 SQ	70/95 SQ
OSGP 1	1 x 12	1 x 10	1 x 8	1 x 6	1 x 5	1 x 4	-	-
OSGP 2	1 x 19	1 x 16	1 x 12	1 x 10	1 x 8	1 x 5	-	-
OSGP 3	1 x 39	1 x 32	1 x 25	1 x 20	1 x 16	1 x 12	-	-
OSGP 4	1 x 58	1 x 48	1 x 37	1 x 30	1 x 24	1 x 18	-	-
OSGP 5	2 x 38	2 x 32	2 x 25	2 x 20	2 x 16	2 x 12	-	-
OSGP 6	2 x 38	2 x 32	2 x 25	2 x 20	2 x 16	2 x 12	-	-
OSGP 7	2 x 66	2 x 55	2 x 43	2 x 34	2 x 28	2 x 21	-	-
OSGP 8	2 x 66	2 x 55	2 x 43	2 x 34	2 x 28	2 x 21	-	-
OSGP 9	3 x 67	3 x 56	3 x 43	2 x 35	2 x 28	2 x 21	-	-
OSGP 10	3 x 67	3 x 56	3 x 43	2 x 35	2 x 28	2 x 21	2 x 18	1 x 12
OSGP 11	3 x 67	3 x 56	3 x 43	2 x 35	2 x 28	2 x 21	2 x 18	1 x 12

※ Terminal block is WDU series or equivalent products.

Maximum Cable entry quantity

TYPE	ENTRY POSITION	M16	M20	M25	M32	M40	M50	M63	M75
OSGP 1	Top / Bottom	2	2	2	1	-	-	-	-
	Left / Right	1	1	1	1	-	-	-	-
OSGP 2	Top / Bottom	4	3	2	2	-	-	-	-
	Left / Right	3	2	2	1	-	-	-	-
OSGP 3	Top / Bottom	9	5	4	3	-	-	-	-
	Left / Right	3	2	2	1	-	-	-	-
OSGP 4	Top / Bottom	14	8	6	5	-	-	-	-
	Left / Right	3	2	2	1	-	-	-	-
OSGP 5	Top / Bottom	14	10	7	4	3	2	-	-
	Left / Right	10	7	5	3	2	1	-	-
OSGP 6	Top / Bottom	22	11	8	6	5	2	2	1
	Left / Right	14	9	6	6	3	2	1	1
OSGP 7	Top / Bottom	21	15	12	6	4	3	-	-
	Left / Right	9	7	4	3	2	1	-	-
OSGP 8	Top / Bottom	29	23	15	11	9	4	3	2
	Left / Right	14	11	6	6	3	2	1	1
OSGP 9	Top / Bottom	20	14	12	7	5	3	-	-
	Left / Right	17	12	9	6	4	3	-	-
OSGP 10	Top / Bottom	40	23	15	11	9	4	3	2
	Left / Right	26	20	14	9	6	3	2	1
OSGP 11	Top / Bottom	48	27	18	14	10	5	3	2
	Left / Right	32	23	17	11	18	5	2	1