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OPzS block
Vented Lead-Acid
STANDBY POWER BATTERIES

SPECIFICATION

OPzS block

ADVANTAGES

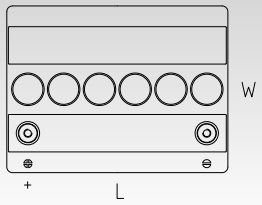
√ 15+ years Design Life
√ Up to 1500 deep discharge cycles
√ Extended topping-up intervals
√ Maximum charging efficiency
√ Minimal positive growth
√ Improved safety against accidental contacts

MAIN APPLICATIONS

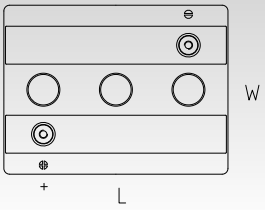
√ Telecommunication
√ Power plants
√ Substations
√ Emergency power
√ Wind and Solar power generation
√ Railways

STANDARD REF.

√ EN 60896-11
√ EN 50272-2
√ EN 61427



OPzSblock 12/50
OPzSblock 12/100
OPzSblock 12/150



OPzSblock 6/200
OPzSblock 6/250
OPzSblock 6/300

Type	Nominal Voltage	Actual Capacity		Ri	Isc	Dimensions (mm)			Weight		Electrolyte		No. of Terminals
	V	Ah/10Hrs	Ah/120Hrs	mOhm	kA	Length	Width	Overall Height	Wet Kg	Dry Kg	Weight Kg	Volume Litres	
OPzS block 12/50	12	**50**	**73**	16.64	0.72	**272**	**205**	**395**	**42.9**	**31.1**	11.8	9.5	**2**
OPzS block 12/100	12	**100**	**146**	9.44	1.27	**272**	**205**	**395**	**52.8**	**41.4**	11.4	9.2	**2**
OPzS block 12/150	12	**150**	**219**	6.57	1.83	**380**	**205**	**395**	**72.3**	**57.2**	15.1	12.2	**2**
OPzS block 6/200	6	**200**	**293**	2.78	2.20	**272**	**205**	**395**	**50.7**	**38.5**	12.2	9.8	**2**
OPzS block 6/250	6	**250**	**366**	2.22	2.75	**380**	**205**	**395**	**69.5**	**54.0**	15.5	12.5	**2**
OPzS block 6/300	6	**300**	**439**	1.85	3.30	**380**	**205**	**395**	**74.3**	**59.5**	14.8	11.9	**2**

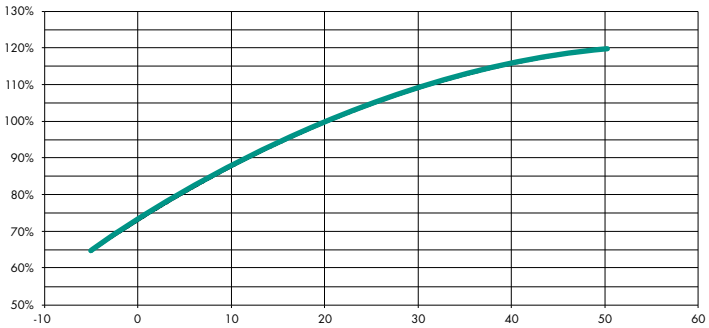
SPECIFICATION

√ Positive plates	Tubular plate with lead selenium grid alloy (Sb < 2%) and woven gauntlet
√ Negative plates	Fully enveloped flat pasted plate with lead selenium grid alloy (Sb < 2%)
√ Separators	Microporous plastic separators
√ Container	High-strength transparent SAN (option: available in Flame Retardant PC UL94 V0 version)
√ Lid	Opaque gray SAN (option: available in Flame Retardant ABS UL94 V0 version)
√ Electrolyte	Dilute solution of sulfuric acid SG1.240 ±0.01 at 20°C
√ Electrolyte reserve	Maximum availability over the plates
√ Terminal Posts	Robust design d.24 mm with M10 threaded insert
√ Posts sealing	Sealing bush on HQ post finishing
√ Vents	Flame arrestor ceramic vents fully tested in compliance with UL standard (option: Flip-top version)
√ Plates suspension	Bottom supported with sediment space
√ Inter-cell connectors	Welded lead bars with protection covers
√ Inter-block connectors	Fully insulated flexible copper connectors
√ Terminal hardware	Stainless steel with insulating caps

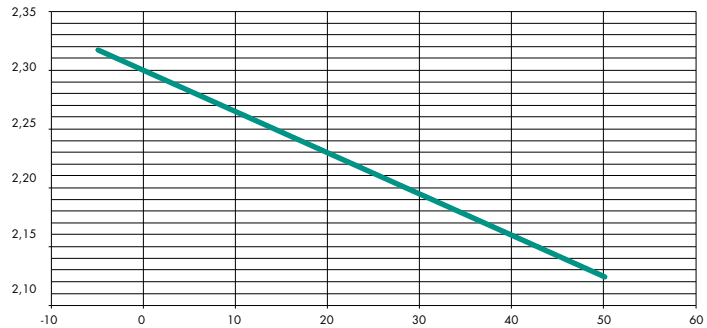
OPERATION PARAMETERS

√ Float Charge Voltage	2.22 to 2.23 Vpc (12V battery 13.32 to 13.38 Vbatt; 6V battery 6.66 to 6.69 Vbatt)
√ Max Float Current (A)	0.15 C10
√ Boost Voltage (Vpc)	2.35 to 2.45 Vpc (12V battery 14.10 to 14.70 Vbatt; 6V battery 7.05 to 7.35 Vbatt)
√ Max Boost Current (A)	0.15 C10
√ Operating Temperature	-10°C to +60°C
√ Self Discharge	< 4% /month at 20°C
√ Torque setting	11 ± 1 Nm (bolts on connections)

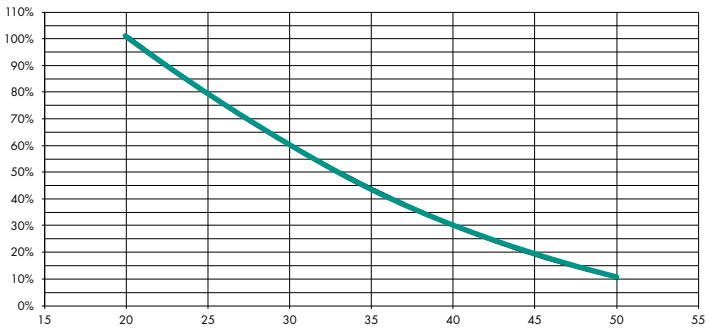
PERFORMANCE Capacity vs Temperature (°C)



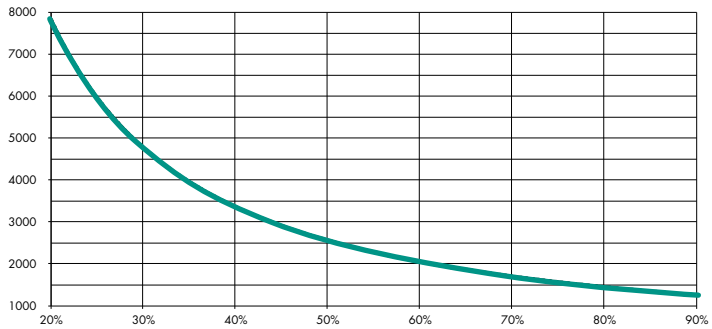
TEMPERATURE COMPENSATION Float Voltage vs Temperature (°C)



THERMAL DEGRADATION Lifetime vs Temperature (°C)



LIFECYCLES No. of Cycles vs D.o.D. (% C10)



OPzS block

DISCHARGE CURRENT (A) to 1.60 Vpc at 20°C

Type	Minutes					Hours										
	1	5	10	15	30	1	2	3	5	8	10	20	24	100	120	240
OPzS block 12/50	102,0	84,0	**67,5**	56,8	40,4	**26,8**	17,0	12,9	8,8	6,2	**5,2**	2,99	2,58	**0,73**	0,64	**0,33**
OPzS block 12/100	204,0	168,0	**135,0**	113,7	80,8	**53,5**	34,1	25,8	17,6	12,4	**10,5**	5,98	5,16	**1,46**	1,27	**0,65**
OPzS block 12/150	306,0	252,0	**202,5**	170,5	121,1	**80,3**	51,1	38,7	26,5	18,6	**15,7**	8,97	7,74	**2,19**	1,91	**0,98**
OPzS block 6/200	408,0	336,0	**270,0**	227,4	161,5	**107,0**	68,1	51,6	35,3	24,8	**20,9**	11,95	10,32	**2,92**	2,55	**1,30**
OPzS block 6/250	510,0	420,0	**337,5**	284,2	201,9	**133,8**	85,2	64,4	44,1	31,1	**26,1**	14,94	12,90	**3,65**	3,19	**1,63**
OPzS block 6/300	612,0	504,0	**405,0**	341,1	242,3	**160,5**	102,2	77,3	52,9	37,3	**31,4**	17,93	15,48	**4,38**	3,82	**1,95**

DISCHARGE CURRENT (A) to 1.65 Vpc at 20°C

Type	Minutes					Hours										
	1	5	10	15	30	1	2	3	5	8	10	20	24	100	120	240
OPzS block 12/50	87,0	72,9	**60,0**	51,7	37,9	**26,0**	16,7	12,7	8,7	6,2	**5,2**	2,97	2,56	**0,73**	0,63	**0,32**
OPzS block 12/100	174,0	145,8	**120,0**	103,3	75,8	**52,0**	33,4	25,4	17,5	12,3	**10,4**	5,94	5,13	**1,45**	1,26	**0,64**
OPzS block 12/150	261,0	218,7	**180,0**	155,0	113,7	**78,0**	50,2	38,0	26,2	18,5	**15,5**	8,90	7,69	**2,18**	1,90	**0,97**
OPzS block 6/200	348,0	291,6	**240,0**	206,7	151,6	**104,0**	66,9	50,7	34,9	24,6	**20,7**	11,87	10,25	**2,91**	2,53	**1,29**
OPzS block 6/250	435,0	364,5	**300,0**	258,3	189,5	**130,0**	83,6	63,4	43,7	30,8	**25,9**	14,84	12,81	**3,63**	3,16	**1,61**
OPzS block 6/300	522,0	437,4	**360,0**	310,0	227,4	**156,0**	100,3	76,1	52,4	37,0	**31,1**	17,81	15,38	**4,36**	3,79	**1,93**

DISCHARGE CURRENT (A) to 1.70 Vpc at 20°C

Type	Minutes					Hours										
	1	5	10	15	30	1	2	3	5	8	10	20	24	100	120	240
OPzS block 12/50	70,6	61,4	**53,0**	46,8	35,5	**25,1**	16,5	12,5	8,7	6,1	**5,2**	2,96	2,55	**0,73**	0,63	**0,32**
OPzS block 12/100	141,2	122,8	**106,0**	93,6	71,1	**50,2**	33,0	25,1	17,4	12,2	**10,3**	5,91	5,11	**1,45**	1,26	**0,64**
OPzS block 12/150	211,8	184,2	**159,0**	140,4	106,6	**75,2**	49,5	37,6	26,1	18,3	**15,5**	8,87	7,66	**2,18**	1,89	**0,96**
OPzS block 6/200	282,4	245,6	**212,0**	187,3	142,1	**100,3**	66,0	50,2	34,8	24,5	**20,6**	11,83	10,22	**2,90**	2,52	**1,28**
OPzS block 6/250	353,0	307,0	**265,0**	234,1	177,7	**125,4**	82,6	62,7	43,5	30,6	**25,8**	14,79	12,77	**3,63**	3,15	**1,61**
OPzS block 6/300	423,6	368,4	**318,0**	280,9	213,2	**150,5**	99,1	75,2	52,2	36,7	**31,0**	17,74	15,32	**4,35**	3,78	**1,93**

DISCHARGE CURRENT (A) to 1.75 Vpc at 20°C

Type	Minutes					Hours										
	1	5	10	15	30	1	2	3	5	8	10	20	24	100	120	240
OPzS block 12/50	58,0	52,1	**46,5**	42,0	33,4	**24,0**	16,1	12,4	8,6	6,0	**5,1**	2,94	2,54	**0,72**	0,62	**0,32**
OPzS block 12/100	116,0	104,2	**93,0**	84,0	66,9	**48,1**	32,2	24,8	17,2	12,0	**10,2**	5,87	5,08	**1,45**	1,24	**0,63**
OPzS block 12/150	174,0	156,3	**139,5**	126,0	100,3	**72,1**	48,3	37,2	25,8	18,0	**15,3**	8,81	7,61	**2,17**	1,87	**0,95**
OPzS block 6/200	232,0	208,4	**186,0**	168,0	133,8	**96,1**	64,4	49,6	34,4	24,0	**20,4**	11,75	10,15	**2,90**	2,49	**1,27**
OPzS block 6/250	290,0	260,5	**232,5**	210,0	167,2	**120,2**	80,5	62,0	43,1	30,0	**25,5**	14,68	12,69	**3,62**	3,11	**1,59**
OPzS block 6/300	348,0	312,6	**279,0**	252,0	200,6	**144,2**	96,6	74,4	51,7	36,1	**30,6**	17,62	15,23	**4,35**	3,73	**1,90**

DISCHARGE CURRENT (A) to 1.80 Vpc at 20°C

Type	Minutes					Hours										
	1	5	10	15	30	1	2	3	5	8	10	20	24	100	120	240
OPzS block 12/50	50,2	46,0	**41,8**	38,3	30,9	**22,8**	15,4	11,8	8,3	5,9	**5,0**	2,88	2,49	**0,72**	0,61	**0,31**
OPzS block 12/100	100,3	92,0	**83,5**	76,6	61,9	**45,6**	30,7	23,7	16,6	11,7	**10,0**	5,77	4,99	**1,45**	1,22	**0,62**
OPzS block 12/150	150,5	138,1	**125,3**	114,9	92,8	**68,3**	46,1	35,5	25,0	17,6	**15,0**	8,65	7,48	**2,17**	1,83	**0,93**
OPzS block 6/200	200,6	184,1	**167,0**	153,2	123,7	**91,1**	61,4	47,4	33,3	23,5	**20,0**	11,54	9,98	**2,90**	2,44	**1,24**
OPzS block 6/250	250,8	230,1	**208,8**	191,4	154,7	**113,9**	76,8	59,2	41,6	29,4	**25,0**	14,42	12,47	**3,62**	3,05	**1,55**
OPzS block 6/300	301,0	276,1	**250,5**	229,7	185,6	**136,7**	92,2	71,1	49,9	35,2	**30,0**	17,31	14,96	**4,35**	3,66	**1,86**

DISCHARGE CURRENT (A) to 1.85 Vpc at 20°C

Type	Minutes					Hours										
	1	5	10	15	30	1	2	3	5	8	10	20	24	100	120	240
OPzS block 12/50	38,2	36,1	**33,5**	31,4	26,3	**20,3**	14,0	11,0	7,9	5,5	**4,7**	2,76	2,37	**0,68**	0,57	**0,29**
OPzS block 12/100	76,4	72,2	**67,0**	62,7	52,7	**40,5**	28,0	22,0	15,7	11,1	**9,4**	5,52	4,74	**1,37**	1,15	**0,58**
OPzS block 12/150	114,6	108,3	**100,4**	94,1	79,0	**60,8**	42,0	33,0	23,6	16,6	**14,1**	8,28	7,12	**2,05**	1,72	**0,88**
OPzS block 6/200	152,8	144,5	**133,9**	125,4	105,3	**81,1**	56,0	44,0	31,4	22,1	**18,8**	11,04	9,49	**2,73**	2,29	**1,17**
OPzS block 6/250	191,0	180,6	**167,4**	156,8	131,7	**101,4**	70,0	55,0	39,3	27,7	**23,5**	13,79	11,86	**3,42**	2,87	**1,46**
OPzS block 6/300	229,2	216,7	**200,9**	188,1	158,0	**121,6**	84,0	66,0	47,2	33,2	**28,2**	16,55	14,23	**4,10**	3,44	**1,75**

DISCHARGE CURRENT (A) to 1.90 Vpc at 20°C

Type	Minutes					Hours										
	1	5	10	15	30	1	2	3	5	8	10	20	24	100	120	240
OPzS block 12/50	29,0	27,6	**26,2**	24,9	21,5	**17,0**	12,3	9,8	7,0	5,0	**4,2**	2,51	2,16	**0,63**	0,52	**0,26**
OPzS block 12/100	58,0	55,2	**52,4**	49,8	43,1	**34,1**	24,7	19,5	13,9	9,9	**8,5**	5,02	4,32	**1,25**	1,04	**0,53**
OPzS block 12/150	87,0	82,8	**78,6**	74,7	64,6	**51,1**	37,0	29,3	20,9	14,9	**12,7**	7,52	6,48	**1,88**	1,55	**0,79**
OPzS block 6/200	116,0	110,4	**104,8**	99,7	86,1	**68,1**	49,3	39,0	27,8	19,9	**17,0**	10,03	8,64	**2,50**	2,07	**1,06**
OPzS block 6/250	145,0	138,0	**131,0**	124,6	107,6	**85,2**	61,7	48,8	34,8	24,9	**21,2**	12,54	10,80	**3,13**	2,59	**1,32**
OPzS block 6/300	174,0	165,6	**157,3**	149,5	129,2	**102,2**	74,0	58,5	41,7	29,8	**25,5**	15,05	12,96	**3,75**	3,11	**1,58**

OPzS block

DISCHARGE POWER (Wb) to 1.60 Vpc at 20°C

Type	Minutes					Hours								
	1	5	10	15	30	1	2	3	5	8	10	20	24	100
OPzS block 12/50	1002,9	840,7	**687,5**	589,1	425,5	**286,7**	185,5	142,7	99,2	70,9	**60,6**	35,19	30,84	**8,85**
OPzS block 12/100	2005,7	1681,4	**1375,0**	1178,1	851,1	**573,3**	371,0	285,3	198,4	141,9	**121,2**	70,38	61,68	**17,69**
OPzS block 12/150	3008,6	2522,2	**2062,5**	1767,2	1276,6	**860,0**	556,6	428,0	297,5	212,8	**181,8**	105,57	92,52	**26,54**
OPzS block 6/200	2005,7	1681,4	**1375,0**	1178,1	851,1	**573,3**	371,0	285,3	198,4	141,9	**121,2**	70,38	61,68	**17,69**
OPzS block 6/250	2507,2	2101,8	**1718,8**	1472,6	1063,9	**716,6**	463,8	356,6	247,9	177,3	**151,5**	87,98	77,10	**22,11**
OPzS block 6/300	3008,6	2522,2	**2062,5**	1767,2	1276,6	**860,0**	556,6	428,0	297,5	212,8	**181,8**	105,57	92,52	**26,54**

DISCHARGE POWER (Wb) to 1.65 Vpc at 20°C

Type	Minutes					Hours								
	1	5	10	15	30	1	2	3	5	8	10	20	24	100
OPzS block 12/50	876,2	745,1	**622,2**	543,5	404,3	**281,2**	183,4	140,9	98,4	70,3	**59,9**	34,76	30,40	**8,73**
OPzS block 12/100	1752,4	1490,2	**1244,4**	1086,9	808,6	**562,5**	366,7	281,9	196,8	140,6	**119,9**	69,52	60,80	**17,45**
OPzS block 12/150	2628,6	2235,2	**1866,5**	1630,4	1213,0	**843,7**	550,1	422,8	295,2	210,9	**179,8**	104,28	91,19	**26,18**
OPzS block 6/200	1752,4	1490,2	**1244,4**	1086,9	808,6	**562,5**	366,7	281,9	196,8	140,6	**119,9**	69,52	60,80	**17,45**
OPzS block 6/250	2190,5	1862,7	**1555,5**	1358,6	1010,8	**703,1**	458,4	352,3	246,0	175,8	**149,8**	86,90	75,99	**21,82**
OPzS block 6/300	2628,6	2235,2	**1866,5**	1630,4	1213,0	**843,7**	550,1	422,8	295,2	210,9	**179,8**	104,28	91,19	**26,18**

DISCHARGE POWER (Wb) to 1.70 Vpc at 20°C

Type	Minutes					Hours								
	1	5	10	15	30	1	2	3	5	8	10	20	24	100
OPzS block 12/50	739,2	650,5	**568,0**	507,5	389,6	**278,1**	185,1	142,1	99,6	70,8	**60,4**	34,98	30,53	**8,76**
OPzS block 12/100	1478,4	1301,0	**1136,1**	1015,1	779,2	**556,2**	370,2	284,3	199,3	141,6	**120,9**	69,97	61,06	**17,51**
OPzS block 12/150	2217,7	1951,4	**1704,1**	1522,6	1168,7	**834,3**	555,4	426,4	298,9	212,4	**181,3**	104,95	91,58	**26,27**
OPzS block 6/200	1478,4	1301,0	**1136,1**	1015,1	779,2	**556,2**	370,2	284,3	199,3	141,6	**120,9**	69,97	61,06	**17,51**
OPzS block 6/250	1848,0	1626,2	**1420,1**	1268,9	973,9	**695,2**	462,8	355,4	249,1	177,0	**151,1**	87,46	76,32	**21,89**
OPzS block 6/300	2217,7	1951,4	**1704,1**	1522,6	1168,7	**834,3**	555,4	426,4	298,9	212,4	**181,3**	104,95	91,58	**26,27**

DISCHARGE POWER (Wb) to 1.75 Vpc at 20°C

Type	Minutes					Hours								
	1	5	10	15	30	1	2	3	5	8	10	20	24	100
OPzS block 12/50	618,4	560,4	**504,6**	460,6	369,9	**268,2**	181,1	140,7	98,5	69,8	**59,7**	34,59	30,14	**8,67**
OPzS block 12/100	1236,7	1120,8	**1009,2**	921,1	739,8	**536,3**	362,2	281,4	197,1	139,6	**119,5**	69,19	60,29	**17,35**
OPzS block 12/150	1855,1	1681,2	**1513,8**	1381,7	1109,7	**804,5**	543,2	422,1	295,6	209,4	**179,2**	103,78	90,43	**26,02**
OPzS block 6/200	1236,7	1120,8	**1009,2**	921,1	739,8	**536,3**	362,2	281,4	197,1	139,6	**119,5**	69,19	60,29	**17,35**
OPzS block 6/250	1545,9	1401,0	**1261,5**	1151,4	924,7	**670,4**	452,7	351,8	246,3	174,5	**149,3**	86,49	75,36	**21,68**
OPzS block 6/300	1855,1	1681,2	**1513,8**	1381,7	1109,7	**804,5**	543,2	422,1	295,6	209,4	**179,2**	103,78	90,43	**26,02**

DISCHARGE POWER (Wb) to 1.80 Vpc at 20°C

Type	Minutes					Hours								
	1	5	10	15	30	1	2	3	5	8	10	20	24	100
OPzS block 12/50	546,9	504,9	**460,9**	426,0	346,2	**256,5**	174,0	135,0	95,3	68,1	**58,3**	33,80	29,39	**8,59**
OPzS block 12/100	1093,8	1009,8	**921,9**	851,9	692,4	**513,0**	348,0	269,9	190,7	136,3	**116,6**	67,59	58,78	**17,17**
OPzS block 12/150	1640,7	1514,7	**1382,8**	1277,9	1038,6	**769,5**	522,0	404,9	286,0	204,4	**175,0**	101,39	88,17	**25,76**
OPzS block 6/200	1093,8	1009,8	**921,9**	851,9	692,4	**513,0**	348,0	269,9	190,7	136,3	**116,6**	67,59	58,78	**17,17**
OPzS block 6/250	1367,3	1262,2	**1152,3**	1064,9	865,5	**641,3**	435,0	337,4	238,4	170,3	**145,8**	84,49	73,48	**21,46**
OPzS block 6/300	1640,7	1514,7	**1382,8**	1277,9	1038,6	**769,5**	522,0	404,9	286,0	204,4	**175,0**	101,39	88,17	**25,76**

DISCHARGE POWER (Wb) to 1.85 Vpc at 20°C

Type	Minutes					Hours								
	1	5	10	15	30	1	2	3	5	8	10	20	24	100
OPzS block 12/50	425,7	403,9	**375,8**	353,7	298,2	**230,4**	159,7	126,0	90,2	64,1	**54,7**	32,15	27,73	**8,02**
OPzS block 12/100	851,5	807,9	**751,6**	707,5	596,4	**460,7**	319,4	251,9	180,5	128,3	**109,4**	64,30	55,47	**16,04**
OPzS block 12/150	1277,2	1211,8	**1127,4**	1061,2	894,6	**691,1**	479,0	377,9	270,7	192,4	**164,1**	96,45	83,20	**24,06**
OPzS block 6/200	851,5	807,9	**751,6**	707,5	596,4	**460,7**	319,4	251,9	180,5	128,3	**109,4**	64,30	55,47	**16,04**
OPzS block 6/250	1064,4	1009,8	**939,5**	884,4	745,5	**575,9**	399,2	314,9	225,6	160,4	**136,8**	80,37	69,33	**20,05**
OPzS block 6/300	1277,2	1211,8	**1127,4**	1061,2	894,6	**691,1**	479,0	377,9	270,7	192,4	**164,1**	96,45	83,20	**24,06**

DISCHARGE POWER (Wb) to 1.90 Vpc at 20°C

Type	Minutes					Hours								
	1	5	10	15	30	1	2	3	5	8	10	20	24	100
OPzS block 12/50	337,0	321,1	**305,2**	290,4	251,2	**199,0**	144,2	114,2	81,4	58,3	**49,8**	29,48	25,42	**7,36**
OPzS block 12/100	674,0	642,1	**610,4**	580,8	502,4	**397,9**	288,4	228,3	162,9	116,6	**99,6**	58,96	50,83	**14,72**
OPzS block 12/150	1011,0	963,2	**915,6**	871,2	753,6	**596,9**	432,6	342,5	244,3	174,9	**149,5**	88,44	76,25	**22,08**
OPzS block 6/200	674,0	642,1	**610,4**	580,8	502,4	**397,9**	288,4	228,3	162,9	116,6	**99,6**	58,96	50,83	**14,72**
OPzS block 6/250	842,5	802,7	**763,0**	726,0	628,0	**497,4**	360,5	285,4	203,6	145,7	**124,5**	73,70	63,54	**18,40**
OPzS block 6/300	1011,0	963,2	**915,6**	871,2	753,6	**596,9**	432,6	342,5	244,3	174,9	**149,5**	88,44	76,25	**22,08**

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