

93PS UPS on-battery runtimes with different load ratings



Internal batteries for 8-20kVA (Small Frame) + Small battery cabinet

9Ah battery (5-year or 10-year)

Power Factor 1.0	UPS load																	
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	kVA
1	25	19	15	12	10	8	7	6	-	-	-	-	-	-	-	-	-	min
2	58	44	36	29	25	21	19	16	15	13	12	11	10	9	8	7	7	min
3	89	73	58	48	41	36	30	28	25	23	20	19	17	16	15	14	13	min
4	125	96	81	69	58	51	44	40	36	31	29	27	25	23	21	20	19	min
5	173	125	101	86	76	67	58	52	46	42	39	36	32	30	28	27	25	min
6	215	165	125	105	89	81	73	65	58	53	48	44	41	38	36	33	30	min
7	252	199	159	125	107	92	84	77	71	64	58	54	49	45	43	40	38	min
8	293	229	187	155	125	109	96	87	81	75	69	63	58	54	51	47	44	min

Power Factor 0.9	UPS load																	
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	kVA
1	28	21	17	14	11	9	8	7	6	5	-	-	-	-	-	-	-	min
2	67	51	41	33	28	25	21	19	17	15	14	13	11	10	9	9	8	min
3	101	81	67	55	46	41	36	31	28	26	24	21	20	18	17	15	15	min
4	149	109	88	77	67	57	51	44	41	37	33	30	28	26	25	23	21	min
5	197	149	114	95	84	75	67	59	53	48	44	41	38	35	32	29	28	min
6	237	187	149	117	101	88	81	74	67	60	55	51	46	43	41	38	36	min
7	285	223	180	149	119	106	92	85	79	73	67	61	56	53	49	45	43	min
8	324	257	212	176	149	122	109	97	88	83	77	72	67	61	57	54	51	min

Power Factor 0.8	UPS load																	
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	kVA
1	32	25	20	16	13	11	10	8	7	6	6	-	-	-	-	-	-	min
2	76	58	46	39	32	28	25	22	20	18	16	15	13	12	11	10	10	min
3	115	89	76	64	54	46	41	37	32	29	27	25	23	21	20	18	17	min
4	173	125	101	86	76	67	58	52	46	42	39	36	32	30	28	27	25	min
5	224	173	134	109	93	84	76	69	61	56	51	46	43	40	38	35	32	min
6	274	215	173	141	115	101	89	82	76	70	64	58	54	50	46	43	41	min
7	319	252	209	173	145	119	107	95	87	82	76	71	65	60	56	53	49	min
8	356	293	237	204	173	149	125	112	101	91	86	81	76	71	67	62	58	min

Note!

The specifications are subject to change without a notice.
The battery backup tables are given with end voltage 1.70 VPC and temperature +25°C.
The batteries are fully charged and measured after min. (5) full discharge cycles.

Unit



0-2 strings of
batteries
internally

Battery Cabinet



2-3 strings of
batteries / cabinet



Battery cabinets:

Reference	Description	Batteries
P-105000041-001	EBC-A-0x96-EMPTY-BB-63A	Empty
P-105000041-002	EBC-A-2x32-9AH-BB-63A	2 x 9Ah
P-105000041-003	EBC-A-3x32-9AH-BB-63A	3 x 9Ah
P-105000041-006	EBC-A-2x32-9AHL-BB-63A	2 x 9Ah Long life
P-105000041-007	EBC-A-3x32-9AHL-BB-63A	3 x 9Ah Long life

Note!

These battery cabinets may only be used with the small frame UPS

Internal batteries for 8-20kVA (Small Frame) + Small battery cabinet

7Ah battery (10-year)

Power Factor 1.0	UPS load																	
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	kVA
1	21	15	11	9	7	5	-	-	-	-	-	-	-	-	-	-	-	min
2	52	40	32	26	21	18	15	13	11	10	9	8	7	6	5	-	-	min
3	83	65	52	43	38	32	28	25	21	19	17	15	14	13	11	10	10	min
4	112	87	74	61	52	45	40	36	32	29	26	24	21	19	18	16	15	min
5	154	112	90	79	69	59	52	46	42	39	35	32	29	27	25	23	21	min
6	194	146	112	93	83	74	65	58	52	47	43	40	38	35	32	30	28	min
7	229	177	139	112	96	85	78	70	63	57	52	48	44	42	39	37	35	min
8	267	209	168	134	112	98	87	81	74	68	61	57	52	48	45	43	40	min

Power Factor 0.9	UPS load																	
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	kVA
1	25	18	14	10	8	7	5	-	-	-	-	-	-	-	-	-	-	min
2	59	45	37	30	25	21	18	15	14	12	10	9	8	8	7	6	5	min
3	90	74	59	49	42	37	32	28	25	22	20	18	16	15	14	13	11	min
4	128	98	82	70	59	52	45	41	37	33	30	28	25	23	21	19	18	min
5	176	128	103	87	77	68	59	53	47	43	40	37	34	31	29	27	25	min
6	218	168	128	106	90	82	74	66	59	54	49	45	42	40	37	35	32	min
7	257	203	162	128	109	94	85	79	72	65	59	55	51	46	44	41	39	min
8	299	232	191	158	128	111	98	88	82	76	70	64	59	55	52	48	45	min

Power Factor 0.8	UPS load																	
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	kVA
1	29	21	16	13	10	8	7	5	-	-	-	-	-	-	-	-	-	min
2	69	52	42	35	29	25	21	19	16	14	13	11	10	9	8	8	7	min
3	104	83	69	57	48	42	38	33	29	27	24	21	19	18	16	15	14	min
4	154	112	90	79	69	59	52	46	42	39	35	32	29	27	25	23	21	min
5	204	154	117	98	86	77	69	61	55	50	45	42	39	37	34	31	29	min
6	245	194	154	120	104	90	83	76	69	62	57	52	48	44	42	40	38	min
7	294	229	187	154	124	109	96	87	81	75	69	63	58	54	51	47	44	min
8	399	267	218	181	154	128	112	101	90	85	79	74	69	64	59	56	52	min

Note!

The specifications are subject to change without a notice.
The battery backup tables are given with end voltage 1.70 VPC and temperature +25°C.
The batteries are fully charged and measured after min. (5) full discharge cycles.

Unit



0-2 strings of
batteries
internally

Battery Cabinet



2-3 strings of
batteries / cabinet



Battery cabinets:

Reference	Description	Batteries
P-105000041-001	EBC-A-0x96-EMPTY-BB-63A	Empty
P-105000041-004	EBC-A-2x32-7AHL-BB-63A	2 x 7Ah Long life
P-105000041-005	EBC-A-3x32-7AHL-BB-63A	3 x 7Ah Long life

Note!

These battery cabinets may only be used with the small frame UPS

Internal batteries for 8-40kVA - Large Frame

9Ah battery (5-year or 10-year)

Power Factor 1.0	UPS load																																							
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	kVA		
3	89	73	58	48	41	36	30	28	25	23	20	19	17	16	15	14	13	12	11	10	10	9	8	8	7	7	7	6	6	6	5	5	-	-	-	-	-	-	min	
4	125	96	81	69	58	51	44	40	36	31	29	27	25	23	21	20	19	17	16	15	15	14	13	13	12	11	11	10	10	9	9	8	8	8	7	7	7	min		

Power Factor 0.9	UPS load																																							
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	kVA		
3	101	81	67	55	46	41	36	31	28	26	24	21	20	18	17	15	15	14	13	12	11	11	10	9	9	8	8	7	7	7	7	6	6	6	5	5	-	min		
4	149	109	88	77	67	57	51	44	41	37	33	30	28	26	25	23	21	20	19	18	17	16	15	14	14	13	13	12	11	11	10	10	9	9	9	8	8	min		

Power Factor 0.8	UPS load																																							
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	kVA		
3	115	89	76	64	54	46	41	37	32	29	27	25	23	21	20	18	17	16	15	14	13	13	12	11	11	10	10	9	9	8	8	7	7	7	7	6	6	min		
4	173	125	101	86	76	67	58	52	46	42	39	36	32	30	28	27	25	24	22	21	20	19	18	17	16	15	15	14	13	13	12	12	11	11	10	10	10	min		

Internal batteries for 8-40kVA - Large Frame

7Ah battery (10-year)

Power Factor 1.0	UPS load																																							
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	kVA		
3	83	65	52	43	38	32	28	25	21	19	17	15	14	13	11	10	10	9	8	8	7	6	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	min		
4	112	87	74	61	52	45	40	36	32	29	26	24	21	19	18	16	15	14	13	12	11	11	10	9	9	8	8	7	7	6	6	6	5	-	-	-	-	min		

Power Factor 0.9	UPS load																																							
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	kVA		
3	90	74	59	49	42	37	32	28	25	22	20	18	16	15	14	13	11	10	10	9	8	8	7	7	6	6	5	-	-	-	-	-	-	-	-	-	-	min		
4	128	98	82	70	59	52	45	41	37	33	30	28	25	23	21	19	18	17	15	14	14	13	12	11	10	10	9	9	8	8	8	7	7	6	6	5	5	min		

Power Factor 0.8	UPS load																																							
Strings:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	kVA		
3	104	83	69	57	48	42	38	33	29	27	24	21	19	18	16	15	14	13	12	11	10	10	9	8	8	7	7	6	6	5	-	-	-	-	-	-	min			
4	154	112	90	79	69	59	52	46	42	39	35	32	29	27	25	23	21	20	19	17	16	15	14	14	13	12	11	11	10	10	9	9	8	8	8	7	7	min		

Note!

The specifications are subject to change without a notice.

The battery backup tables are given with end voltage 1.70 VPC and temperature +25°C.

The batteries are fully charged and measured after min. (5) full discharge cycles.

Internal batteries + Large battery cabinet



93PS Small Frame
0-2 strings of internal
batteries

1 string of CSB HRL12200W batteries
(10-year)

93PS Large Frame
3-4 strings of internal batteries (Common battery)
1-2 strings of internal batteries/module (Separate battery)

1 string of CSB HRL12200W batteries
(10-year)

Battery cabinets:

Reference	Description	Batteries
P-105000084-001	EBC-B-0x32-EMPTY-BB-63A-M6	Empty
P-105000084-002	EBC-B-1x32-CSBHRL12200W-BB-63A-M6	1 x CSB HRL12200W
P-105000042-001	EBC-B-0x32-EMPTY-BB-160A-M6	Empty
P-105000042-002	EBC-B-1x32-CSBHRL12200W-BB-160A-M6	1 x CSB HRL12200W

