Sonnenschein PowerCycle

Technical data sheet

Technical features:

- Advanced grid design for longer life at high temperatures: up to 5 years at 40 °C in float operation
- Exceptional cyclic performance: 1600 cycles at 60% depth of discharge (C_{10}, 20 °C)
- Excellent performance in partial state of charge (PSOC) operation and rough operating conditions
- Durable polypropylene container
- Wide operating temperature range: -40 °C to +55 °C
- Long shelf life: up to 2 years at 20 °C without recharge
- Proof against deep discharge

Standards & certifications:

- EUROBAT 2015 classification: >12 years – very long life
- Designed in accordance with IEC 60896-21/22
- Trouble-free transport of operational blocks, no restrictions for rail, road, sea, and air transportation (IATA, DGR, clause A67)
- Made in Germany, ISO 9001, 14001 and OHSAS 18001 certified
- Approval: UL (Underwriters Laboratories, USA)

Design life 20 years

Block battery

Grid plate

Recyclable

Valve regulated lead-acid batteries

Proof against deep discharge

Maintenance free (no topping up)

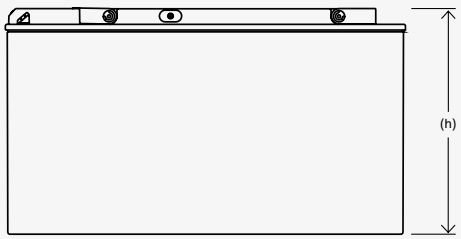
1600 cycles at 60% DoD C_{10}

Technical characteristics and data

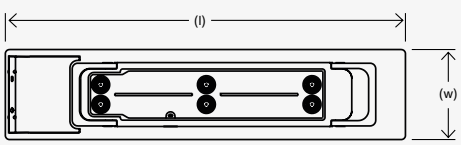
Type	Part number	Nom. voltage	Capacity	Nominal capacity	Length	Width	Height	Weight*	Internal resistance	Short circuit current	Terminal
		V	C_{100} 1.80 Vpc 20 °C	C_{10} 1.80 Vpc 20 °C	(l)	(w)	(h)	approx. kg	mOhm	A	
			Ah	Ah	max. mm	max. mm	max. mm				
PC12/180 FT	NGPC120180HS0MA	12	180	165	568	128	320	57,0	5.10	2432	M-M8-45°

* Actual weight may differ by ±5%

Drawings, terminal and torque



8 Nm



Not to scale!

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Sonnenschein

ENERGIZING A NEW WORLD

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Vpc	5 Min	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
PC12/180 FT – Constant current discharge in A at 20 °C														
1.90	181	172	161	152	128	103	88.6	56.5	40.8	32.4	27.4	18.0	14.7	7.76
1.87	211	202	186	171	144	114	94.9	60.0	43.0	34.0	28.8	18.9	15.5	8.19
1.85	240	221	199	179	152	118	98.8	61.8	44.2	34.9	29.4	19.3	15.9	8.39
1.83	265	241	215	189	158	122	101	63.1	45.1	35.5	29.9	19.7	16.1	8.58
1.80	289	261	229	202	164	127	104	64.7	46.1	36.2	30.3	20.0	16.5	8.75
1.77	312	278	243	212	170	130	107	65.8	46.8	36.7	30.5	20.3	16.7	8.89
1.75	327	291	254	219	173	132	108	66.4	47.2	37.0	30.7	20.4	16.9	8.95
1.73	343	304	264	225	177	134	110	67.0	47.5	37.3	30.9	20.5	16.9	8.95
1.70	363	318	270	232	181	136	111	67.6	47.9	37.6	31.1	20.7	16.9	8.95
1.67	386	325	277	238	184	138	112	68.1	48.2	37.8	31.1	20.7	16.9	8.95
1.65	408	330	282	242	187	139	113	68.4	48.4	37.8	31.1	20.7	16.9	8.95
1.60	432	343	291	248	191	142	114	68.7	48.5	37.9	31.1	20.7	16.9	8.95
PC12/180 FT – Constant power discharge in W/block at 20 °C														
1.90	2172	2079	1961	1845	1523	1209	977	631	468	367	304	203	166	87
1.87	2553	2431	2256	2089	1642	1306	1048	668	494	387	320	213	174	92
1.85	2912	2736	2493	2220	1729	1352	1090	690	510	398	329	219	179	95
1.83	3207	2918	2640	2327	1800	1382	1125	708	522	408	337	224	183	98
1.80	3474	3139	2786	2456	1884	1416	1164	760	536	418	345	228	187	100
1.77	3688	3276	2880	2529	1930	1435	1184	766	542	423	348	230	189	102
1.75	3818	3348	2933	2571	1957	1450	1196	769	546	425	350	232	190	102
1.73	4019	3496	2974	2601	1976	1462	1205	772	549	427	352	232	190	102
1.70	4248	3622	3025	2641	2002	1478	1217	775	552	430	354	234	190	102
1.67	4419	3694	3054	2672	2022	1491	1228	778	555	432	354	234	190	102
1.65	4596	3795	3087	2689	2034	1498	1235	779	556	432	354	234	190	102
1.60	4796	3864	3128	2722	2057	1513	1250	783	557	433	354	234	190	102

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