

Current Harmonics IEC61000-3-12 : 2005
Powador XP500-OD-TL



Test Conditions

Power (per phase)

P = 166.66kW

Item	Value	Result	Item	Value	Result	Item	Value	Result
THD	1.43%	PASS	THD	1.45%	PASS	THD	1.77%	PASS
PWHD	1.44%	PASS	PWHD	1.40%	PASS	PWHD	1.22%	PASS

Harmonic Order	Harmonic current test results						limit of harmonics according to EN 61000-3-12:2005 table 3 - symmetric three phase		Evaluation			Result (Pass / Fail)
	av. Current In [A]			Measurement (%)			av. Current In [A]	Measurement (%)	test result in % from the limit (margin)			
	Phase 1	Phase 2	Phase 3	Phase 1	Phase 2	Phase 3			Phase 1	Phase 2	Phase 3	
1	766.20	778.10	794.23	100.00%	100.00%	100.00%	-	-	-	-	-	
2	7.1281	6.5411	10.8889	0.93%	0.84%	1.37%	62.361	8.0%	11.43%	10.49%	17.46%	P
3	2.3060	4.7765	2.8287	0.30%	0.61%	0.36%	38.975	5.0%	5.92%	12.26%	7.26%	P
4	2.5389	3.8357	3.6340	0.33%	0.49%	0.46%	31.180	4.0%	8.14%	12.30%	11.65%	P
5	5.9149	5.2888	5.5491	0.77%	0.68%	0.70%	83.407	10.7%	7.09%	6.34%	6.65%	P
6	0.7408	1.0866	0.6648	0.10%	0.14%	0.08%	21.047	2.7%	3.52%	5.16%	3.16%	P
7	3.6932	3.1498	4.3139	0.48%	0.40%	0.54%	56.125	7.2%	6.58%	5.61%	7.69%	P
8	0.2768	0.4705	0.4278	0.04%	0.06%	0.05%	15.590	2.0%	1.78%	3.02%	2.74%	P
9	0.2159	0.5392	0.5409	0.03%	0.07%	0.07%	38.975	5.0%	0.55%	1.38%	1.39%	P
10	0.4325	0.6216	0.5587	0.06%	0.08%	0.07%	12.472	1.6%	3.47%	4.98%	4.48%	P
11	0.6076	0.5552	0.6143	0.08%	0.07%	0.08%	24.165	3.1%	2.51%	2.30%	2.54%	P
12	0.3651	0.3114	0.2518	0.05%	0.04%	0.03%	10.134	1.3%	3.60%	3.07%	2.48%	P
13	1.3929	1.1681	1.5795	0.18%	0.15%	0.20%	15.590	2.0%	8.93%	7.49%	10.13%	P
14	0.7497	0.6524	0.5742	0.10%	0.08%	0.07%	8.575	1.1%	8.74%	7.61%	6.70%	P
15	1.2422	0.5758	0.8679	0.16%	0.07%	0.11%	7.795	1.0%	15.94%	7.39%	11.13%	P
16	0.5807	0.5459	0.7289	0.08%	0.07%	0.09%	7.795	1.0%	7.45%	7.00%	9.35%	P
17	1.1249	1.3442	0.7088	0.15%	0.17%	0.09%	7.795	1.0%	14.43%	17.24%	9.09%	P
18	0.3524	0.2383	0.3479	0.05%	0.03%	0.04%	7.795	1.0%	4.52%	3.06%	4.46%	P
19	0.4447	0.3007	0.5773	0.06%	0.04%	0.07%	7.795	1.0%	5.70%	3.86%	7.41%	P
20	0.2208	0.2636	0.2940	0.03%	0.03%	0.04%	7.795	1.0%	2.83%	3.38%	3.77%	P
21	0.4793	0.3492	0.3975	0.06%	0.04%	0.05%	7.795	1.0%	6.15%	4.48%	5.10%	P
22	0.3105	0.5250	0.4582	0.04%	0.07%	0.06%	7.795	1.0%	3.98%	6.74%	5.88%	P
23	0.6375	0.5431	0.4995	0.08%	0.07%	0.06%	7.795	1.0%	8.18%	6.97%	6.41%	P
24	0.3594	0.3666	0.3626	0.05%	0.05%	0.05%	7.795	1.0%	4.61%	4.70%	4.65%	P
25	0.4054	0.3999	0.2312	0.05%	0.05%	0.03%	7.795	1.0%	5.20%	5.13%	2.97%	P
26	0.5514	0.4665	0.3931	0.07%	0.06%	0.05%	7.795	1.0%	7.07%	5.98%	5.04%	P
27	0.1760	0.3195	0.2915	0.02%	0.04%	0.04%	7.795	1.0%	2.26%	4.10%	3.74%	P
28	0.4991	0.6521	0.5343	0.07%	0.08%	0.07%	7.795	1.0%	6.40%	8.37%	6.85%	P
29	0.1364	0.1437	0.1077	0.02%	0.02%	0.01%	7.795	1.0%	1.75%	1.84%	1.38%	P
30	0.1413	0.1936	0.1646	0.02%	0.02%	0.02%	7.795	1.0%	1.81%	2.48%	2.11%	P
31	0.0917	0.1073	0.0540	0.01%	0.01%	0.01%	7.795	1.0%	1.18%	1.38%	0.69%	P
32	0.1247	0.1511	0.0904	0.02%	0.02%	0.01%	7.795	1.0%	1.60%	1.94%	1.16%	P
33	0.0350	0.0528	0.0464	0.00%	0.01%	0.01%	7.795	1.0%	0.45%	0.68%	0.59%	P
34	0.1695	0.1981	0.1484	0.02%	0.03%	0.02%	7.795	1.0%	2.17%	2.54%	1.90%	P
35	0.0483	0.0536	0.0318	0.01%	0.01%	0.00%	7.795	1.0%	0.62%	0.69%	0.41%	P
36	0.3527	0.3851	0.3373	0.05%	0.05%	0.04%	7.795	1.0%	4.52%	4.94%	4.33%	P
37	0.0466	0.0514	0.0506	0.01%	0.01%	0.01%	7.795	1.0%	0.60%	0.66%	0.65%	P
38	0.0319	0.0296	0.0317	0.00%	0.00%	0.00%	7.795	1.0%	0.41%	0.38%	0.41%	P
39	0.0336	0.0271	0.0246	0.00%	0.00%	0.00%	7.795	1.0%	0.43%	0.35%	0.32%	P
40	0.5048	0.6186	0.5493	0.07%	0.08%	0.07%	7.795	1.0%	6.48%	7.94%	7.05%	P
41	0.0156	0.0184	0.0142	0.00%	0.00%	0.00%	7.795	1.0%	0.20%	0.24%	0.18%	P
42	0.3249	0.3777	0.3415	0.04%	0.05%	0.04%	7.795	1.0%	4.17%	4.85%	4.38%	P
43	0.0530	0.0550	0.0480	0.01%	0.01%	0.01%	7.795	1.0%	0.68%	0.70%	0.62%	P
44	0.0189	0.0459	0.0343	0.00%	0.01%	0.00%	7.795	1.0%	0.24%	0.59%	0.44%	P
45	0.1542	0.1412	0.1203	0.02%	0.02%	0.02%	7.795	1.0%	1.98%	1.81%	1.54%	P
46	2.7938	3.2708	2.9074	0.36%	0.42%	0.37%	7.795	1.0%	35.84%	41.96%	37.30%	P
47	0.0351	0.0253	0.0289	0.00%	0.00%	0.00%	7.795	1.0%	0.45%	0.33%	0.37%	P
48	3.4675	4.0444	3.6684	0.45%	0.52%	0.46%	7.795	1.0%	44.48%	51.88%	47.06%	P
49	0.5134	0.5938	0.5115	0.07%	0.08%	0.06%	7.795	1.0%	6.59%	7.62%	6.56%	P
50	0.0344	0.0528	0.0329	0.00%	0.01%	0.00%	7.795	1.0%	0.44%	0.68%	0.42%	P