



Harmonique de courant selon la norme 61000 3-12

Type d'onduleur: RPI M30A

L'onduleur Delta RPI M30A remplit les prescriptions sur les harmoniques selon la norme EN 61000 3-12.

Lieux: Laboratoire Delta Puissance AC: 30 kW
 Date du test: 03.03.2015 U_{pv}: 650 VDC
 Service: EMC Mode de fonctionnement: MPP

ÉLÉMENT	VALEUR	ÉLÉMENT	VALEUR	ÉLÉMENT	VALEUR
THD	1.26%	THD	1.21%	THD	1.32%
PWHD	2.65%	PWHD	2.72%	PWHD	2.66%

ORDRE (N)	LIMITE 61000 3-12	L1 IN(A)	L1 IN/11	L2 IN(A)	L2 IN/11	L3 IN(A)	L3 IN/11	RESULT
1		43.335		43.364		43.407		
2	8,00%	0.05	0.12%	0.059	0.14%	0.042	0.10%	Pass
3	N/A	0.153	0.35%	0.071	0.16%	0.239	0.55%	
4	4,00%	0.038	0.09%	0.036	0.08%	0.044	0.10%	Pass
5	10,70%	0.104	0.24%	0.102	0.24%	0.102	0.24%	Pass
6	2,70%	0.027	0.06%	0.017	0.04%	0.014	0.03%	Pass
7	7,20%	0.212	0.49%	0.213	0.49%	0.203	0.47%	Pass
8	2,00%	0.018	0.04%	0.019	0.04%	0.028	0.06%	Pass
9	N/A	0.02	0.05%	0.013	0.03%	0.028	0.07%	
10	1,60%	0.018	0.04%	0.026	0.06%	0.016	0.04%	Pass
11	3,10%	0.15	0.35%	0.158	0.37%	0.166	0.38%	Pass
12	1,30%	0.026	0.06%	0.027	0.06%	0.018	0.04%	Pass
13	2,00%	0.351	0.81%	0.339	0.78%	0.344	0.79%	Pass
14	N/A	0.012	0.03%	0.016	0.04%	0.018	0.04%	
15	N/A	0.011	0.02%	0.008	0.02%	0.008	0.02%	
16	N/A	0.017	0.04%	0.016	0.04%	0.008	0.02%	
17	N/A	0.164	0.38%	0.173	0.40%	0.173	0.40%	
18	N/A	0.01	0.02%	0.014	0.03%	0.008	0.02%	
19	N/A	0.123	0.28%	0.116	0.27%	0.126	0.29%	
20	N/A	0.007	0.02%	0.008	0.02%	0.009	0.02%	
21	N/A	0.009	0.02%	0.008	0.02%	0.008	0.02%	
22	N/A	0.011	0.02%	0.008	0.02%	0.007	0.02%	
23	N/A	0.09	0.21%	0.095	0.22%	0.086	0.20%	
24	N/A	0.006	0.01%	0.007	0.02%	0.003	0.01%	
25	N/A	0.067	0.16%	0.069	0.16%	0.068	0.16%	
26	N/A	0.007	0.02%	0.008	0.02%	0.008	0.02%	
27	N/A	0.005	0.01%	0.004	0.01%	0.004	0.01%	
28	N/A	0.006	0.01%	0.007	0.02%	0.005	0.01%	
29	N/A	0.058	0.13%	0.064	0.15%	0.055	0.13%	
30	N/A	0.005	0.01%	0.006	0.01%	0.004	0.01%	
31	N/A	0.046	0.11%	0.048	0.11%	0.042	0.10%	
32	N/A	0.004	0.01%	0.005	0.01%	0.005	0.01%	
33	N/A	0.007	0.02%	0.004	0.01%	0.005	0.01%	
34	N/A	0.004	0.01%	0.005	0.01%	0.004	0.01%	
35	N/A	0.056	0.13%	0.055	0.13%	0.055	0.13%	
36	N/A	0.002	0.01%	0.005	0.01%	0.003	0.01%	
37	N/A	0.032	0.07%	0.037	0.09%	0.032	0.07%	
38	N/A	0.004	0.01%	0.004	0.01%	0.004	0.01%	
39	N/A	0.006	0.01%	0.005	0.01%	0.003	0.01%	



40	N/A	0.004	0.01%	0.006	0.01%	0.004	0.01%	
41	N/A	0.034	0.08%	0.033	0.08%	0.036	0.08%	
42	N/A	0.005	0.01%	0.006	0.01%	0.005	0.01%	
43	N/A	0.048	0.11%	0.055	0.13%	0.051	0.12%	
44	N/A	0.004	0.01%	0.007	0.02%	0.005	0.01%	
45	N/A	0.007	0.02%	0.011	0.03%	0.02	0.05%	
46	N/A	0.005	0.01%	0.008	0.02%	0.006	0.01%	
47	N/A	0.032	0.07%	0.049	0.11%	0.037	0.09%	
48	N/A	0.005	0.01%	0.008	0.02%	0.007	0.01%	
49	N/A	0.029	0.07%	0.035	0.08%	0.027	0.06%	
50	N/A	0.008	0.02%	0.008	0.02%	0.008	0.02%	

Impédance du coté AC à 175Hz

L'onduleur Delta Delta RPI M30A présente à 175Hz une impédance de sortie complexe de type $R+jX$:

$$R = 0.00366$$

$$X = -49.096$$