

PAS EN50160 Automatic Reports

EN50160 Harmonics Report

EN50160 Compliance Report

EN50160 Harmonics Report
02-09-07 - 22-09-07

Sun, Oct 07, 2007

3 ימים

V1 Harmonic Voltage

From	To	Max THD, %	Max Odd Hrm THD, %	Worst-case Odd Hrm	Max Odd HD, %Un	Max Even Hrm THD, %	Worst-case Even Hrm	Max Even HD, %Un
02-09-07	08-09-07	3.80	3.80	H05	3.89	0.50	H04	0.32
09-09-07	15-09-07	4.00	3.90	H05	4.01	0.50	H04	0.35
16-09-07	22-09-07	4.20	4.20	H05	4.28	0.50	H04	0.36

V2 Harmonic Voltage

From	To	Max THD, %	Max Odd Hrm THD, %	Worst-case Odd Hrm	Max Odd HD, %Un	Max Even Hrm THD, %	Worst-case Even Hrm	Max Even HD, %Un
02-09-07	08-09-07	3.60	3.60	H05	3.66	0.50	H04	0.28
09-09-07	15-09-07	3.70	3.60	H05	3.68	0.50	H04	0.29
16-09-07	22-09-07	4.10	4.10	H05	4.12	0.50	H04	0.29

V3 Harmonic Voltage

From	To	Max THD, %	Max Odd Hrm THD, %	Worst-case Odd Hrm	Max Odd HD, %Un	Max Even Hrm THD, %	Worst-case Even Hrm	Max Even HD, %Un
02-09-07	08-09-07	3.50	3.50	H05	3.54	0.40	H04	0.19
09-09-07	15-09-07	3.70	3.60	H05	3.67	0.40	H04	0.20
16-09-07	22-09-07	4.10	4.00	H05	4.08	0.50	H04	0.22

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Voltage Unbalance

From	To	In-service time, %	Compliance, % of time	Max Voltage Unbalance, %	Standard Compliance
02-09-07	08-09-07	100.00	100.00	0.90	Ok
09-09-07	15-09-07	100.00	100.00	0.80	Ok
16-09-07	22-09-07	100.00	100.00	0.20	Ok

Harmonic Voltage

From	To	In-service time, %	Harmonic Compliance, % of time	Worst-Case Phase	Max Magnitude, %Un	Harmonic Order	THD Compliance, % of time	Worst-Case Phase	Max THD %	Standard Compliance
02-09-07	08-09-07	100.00	100.00	--	--	--	100.00	V1	3.80	Ok
09-09-07	15-09-07	100.00	100.00	--	--	--	100.00	V1	4.00	Ok
16-09-07	22-09-07	100.00	100.00	--	--	--	100.00	V1	4.20	Ok

Voltage Dips

Actual Voltage (u), %Un	t < 100ms	t < 500ms	t < 1s	t < 3s	t < 20s	t < 60s	t < 180s
<= 90	3	0	0	0	0	0	0
<= 85	6	0	0	0	0	0	0
<= 80	0	0	0	0	0	0	0
<= 70	0	0	0	0	0	0	0

Voltage Interruptions

Duration (t)	t < 1s	t < 180s	t > 180s
	0	0	0

Temporary Overvoltages

Magnitude (u), %Un	t < 1s	1 s <= t < 1 min	t >= 1 min
u <= 120	0	0	0
u <= 140	0	0	0
u <= 160	0	0	0
u <= 200	0	0	0

Transient Overvoltages

Max Magnitude (u), %Un	Polyphase Incidents	V1 Incidents	V2 Incidents	V3 Incidents
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0

EN50160 Compliance Report—Flicker

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Flicker

From	To	In-service time, %	Compliance, Pst <= 1, % of time	Max V1 Pst	Max V2 Pst	Max V3 Pst	Standard Compliance
10-06-07	16-06-07	100.00	98.81	1.58	0.65	0.70	Ok
17-06-07	23-06-07	100.00	95.00	1.20	1.39	3.35	No
24-06-07	30-06-07	100.00	96.30	2.67	1.55	2.01	Ok
01-07-07	07-07-07	100.00	100.00	0.95	0.86	0.79	Ok
08-07-07	14-07-07	100.00	98.79	0.87	1.04	0.88	Ok
15-07-07	21-07-07	100.00	100.00	0.76	0.80	0.68	Ok
22-07-07	28-07-07	100.00	96.30	0.82	1.13	1.34	Ok
29-07-07	04-08-07	100.00	98.80	0.82	0.76	2.30	Ok
05-08-07	11-08-07	100.00	98.81	0.96	0.88	2.76	Ok
12-08-07	18-08-07	100.00	100.00	0.64	0.70	0.79	Ok
19-08-07	25-08-07	100.00	95.07	2.82	3.00	3.44	Ok
26-08-07	01-09-07	100.00	100.00	0.65	0.70	0.73	Ok
02-09-07	08-09-07	100.00	100.00	0.50	0.69	0.80	Ok
09-09-07	15-09-07	100.00	97.62	1.70	2.97	1.86	Ok
16-09-07	22-09-07	100.00	95.00	1.54	3.19	1.93	No
23-09-07	29-09-07	100.00	91.47	2.82	2.24	3.27	No
30-09-07	06-10-07	100.00	89.03	3.07	1.39	1.85	No

Voltage Unbalance

From	To	In-service time, %	Compliance, % of time	Max Voltage Unbalance, %	Standard Compliance
10-06-07	16-06-07	100.00	100.00	0.80	Ok
17-06-07	23-06-07	100.00	99.11	64.00	Ok
24-06-07	30-06-07	100.00	99.90	1.90	Ok
01-07-07	07-07-07	100.00	100.00	0.90	Ok
08-07-07	14-07-07	99.90	100.00	0.90	Ok
15-07-07	21-07-07	100.00	100.00	0.90	Ok
22-07-07	28-07-07	100.00	100.00	0.80	Ok
29-07-07	04-08-07	100.00	100.00	0.90	Ok
05-08-07	11-08-07	99.90	100.00	0.30	Ok
12-08-07	18-08-07	99.90	100.00	0.40	Ok
19-08-07	25-08-07	100.00	100.00	0.90	Ok
26-08-07	01-09-07	99.90	100.00	0.90	Ok
02-09-07	08-09-07	100.00	100.00	0.80	Ok
09-09-07	15-09-07	100.00	100.00	0.20	Ok
16-09-07	22-09-07	99.90	100.00	0.90	Ok
23-09-07	29-09-07	100.00	100.00	1.30	Ok
30-09-07	06-10-07	100.00	100.00	0.80	Ok

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Power Frequency

From	To	In-service time, %	Compliance +/-1%, % of time	Compliance +/-4-6%, % of time	Min Frequency Hz	Max Frequency Hz	Standard Compliance
02-09-07	08-09-07	100.00	100.00	100.00	49.62	50.19	Ok
09-09-07	15-09-07	100.00	100.00	100.00	49.32	50.21	Ok
16-09-07	22-09-07	100.00	99.99	100.00	49.18	50.19	Ok
Annual statistics							
02-09-07	22-09-07	5.75	99.99	100.00	49.18	50.21	Ok

Voltage Variations

From	To	In-service time, %	Compliance +/-10%, % of time	Compliance +/-10-15%, % of time	V1 Min	V1 Max	V2 Min	V2 Max	V3 Min	V3 Max	Standard Compliance
02-09-07	08-09-07	100.00	100.00	100.00	23040	23732	22982	23676	23029	23748	Ok
09-09-07	15-09-07	100.00	100.00	100.00	23000	23685	22958	23635	22999	23709	Ok
16-09-07	22-09-07	100.00	100.00	100.00	23045	23712	23002	23669	23059	23744	Ok

Rapid Voltage Changes

From	To	Polyphase Incidents	V1 Incidents	Max V1 Variation, %Un	V2 Incidents	Max V2 Variation, %Un	V3 Incidents	Max V3 Variation, %Un	Standard Compliance
02-09-07	08-09-07	0	0	0.00	0	0.00	0	0.00	Ok
09-09-07	15-09-07	0	0	0.00	0	0.00	0	0.00	Ok
16-09-07	22-09-07	0	0	0.00	0	0.00	0	0.00	Ok

Flicker

From	To	In-service time, %	Compliance, Pst <= 1, % of time	Max V1 Pst	Max V2 Pst	Max V3 Pst	Standard Compliance
02-09-07	08-09-07	100.00	100.00	0.50	0.69	0.80	Ok
09-09-07	15-09-07	100.00	97.62	1.70	2.97	1.86	Ok
16-09-07	22-09-07	100.00	95.00	1.54	3.19	1.93	No