



Capability Curves: Azzurro ZCS 25-50KTL-V3

Applicant's name: Zucchetti Centro Sistemi SpA
Address: Via Lungarno 305/A 52028 Terranuova Bracciolini (AR), Italy
Test item description: Solar Grid-tied inverter
Trade Mark:
Manufacturer: Same as applicant
Model/Type reference.....: AZZURRO 3PH 25KTL-V3, AZZURRO 3PH 30KTL-V3,
AZZURRO 3PH 33KTL-V3, AZZURRO 3PH 36KTL-V3,
AZZURRO 3PH 40KTL-V3, AZZURRO 3PH 45KTL-V3,
AZZURRO 3PH 50KTL-V3

Semicircle Curve (S = 110 %Sn / Capacitive)						
P Desired (%Sn)	P measured (%Sn)	S measured (%Sn)	Power Factor (cos φ)	Q measured (%Sn)	Q desired (%Sn) (2)	Q deviation (%Sn)
0(1)	2.1	110.0	0.019	-109.9	-110.0	--
5(1)	5.0	109.9	0.046	-109.8	-109.9	--
10	10.0	110.0	0.091	-109.5	-109.5	0.0
15	15.1	110.0	0.137	-108.9	-109.0	+0.1
20	20.0	109.9	0.182	-108.0	-108.2	+0.2
25	25.1	109.8	0.229	-106.9	-107.1	+0.2
30	30.1	109.9	0.273	-105.7	-105.8	+0.1
35	35.0	110.0	0.318	-104.3	-104.3	0.0
40	40.1	110.0	0.364	-102.5	-102.5	0.0
45	45.0	110.0	0.409	-100.3	-100.4	+0.1
50	50.1	109.9	0.456	-97.8	-98.0	+0.2
55	55.0	110.0	0.500	-95.2	-95.3	+0.1
60	60.0	110.2	0.544	-92.5	-92.2	-0.3
65	65.1	110.5	0.589	-89.3	-88.7	-0.6
70	70.0	110.7	0.633	-85.7	-84.9	-0.8
75	75.0	110.7	0.677	-81.5	-80.5	-1.0
80	80.0	110.7	0.723	-76.4	-75.5	-0.9
85	85.0	110.7	0.768	-70.8	-69.8	-1.0
90	90.0	110.8	0.812	-64.6	-63.2	-1.4
95	95.0	111.0	0.856	-57.3	-55.5	-1.8
100	99.1	111.1	0.893	-50.1	-45.8	-4.3
105	104.1	110.1	0.945	-35.9	-32.8	-3.1
110	110.0	110.1	1.000	+0.7	0.0	+0.7

Semicircular Curve (Inductive vs Capacitive)

