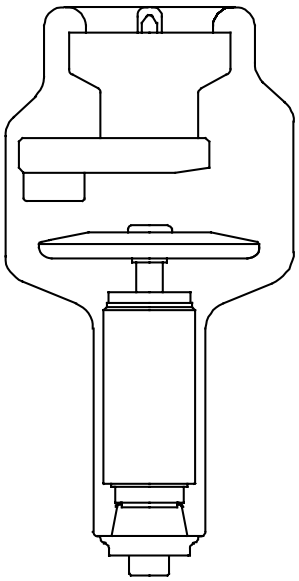
Documentazione Tubo a raggi X
Tube Documentation
Documentation du Tube

RTM 70 HS 0.3/0.6



Nr. di matricola
Tube No.
Nr de série

Questa documentazione deve essere fornita all'utilizzatore del complesso tubo-guaina
The contents of this documentation must be transmitted to the user of the tube-assembly
Le contenu de cette documentation doit être transmis à l'utilisateur de la gaine équipée

Documentazione N° Documentation N° N° de Documentation	Revisione Edition Version	Data di edizione Date of release Date de l'édition	Testo originale Original text Texte original
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Sommario - Table of contents - Table des matières

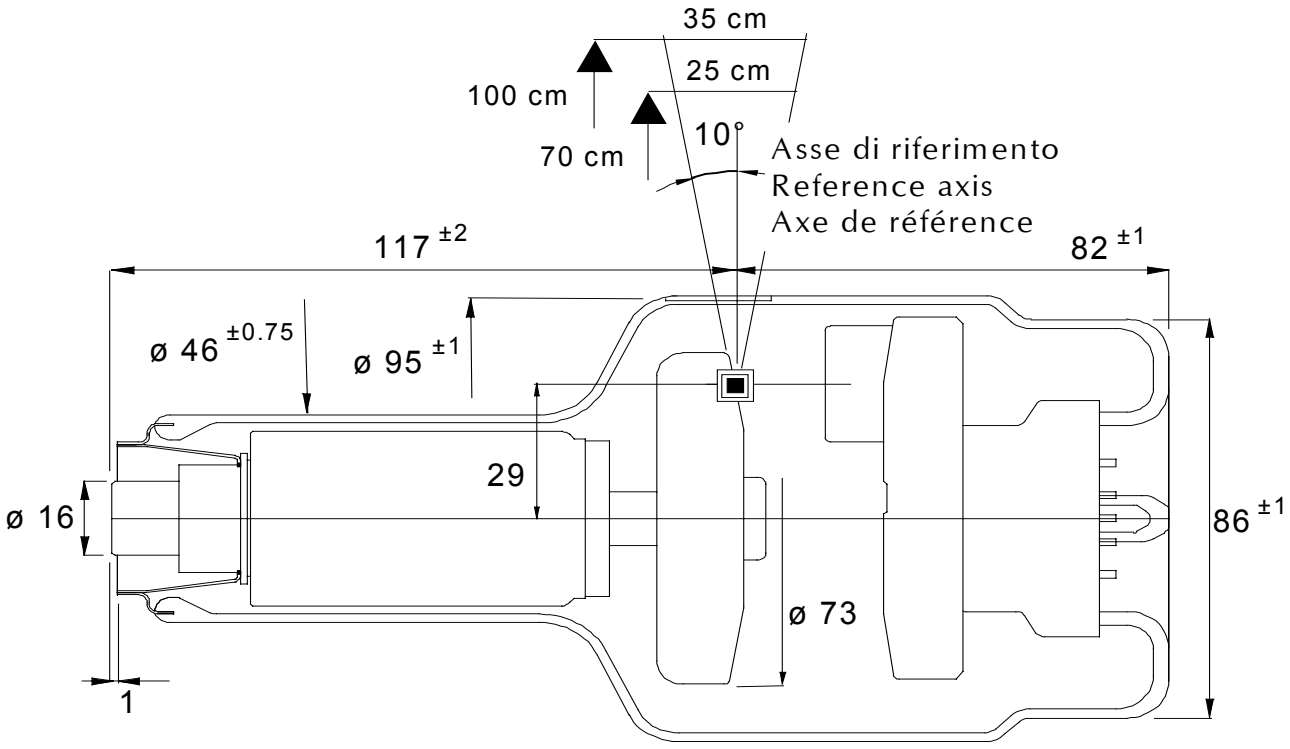
Caratteristiche - Specifications - Spécifications

Macchie focali Focal spot Foyer	▣ ■	0.3 0.6		(IEC 336, EN 60336)
Velocità di rotazione dell'anodo Anode speed Vitesse de l'anode		3000 min^{-1}	10000 min^{-1}	
Potenza anodica nominale Nominal anode input power Puissance anodique nominale	▣ ■	6 kW 25 kW	10 kW 45 kW	(IEC 613, EN 60613)
Diametro anodico Anode diameter Diamètre de l'anode		73 mm		
Materiale anodico Anode material Matériau de l'anode		RTM		
Angolo anodico Anode angle Pente de l'anode		10 °		
Campo di radiazione Radiation field Champ de rayonnement		a 70 cm 25 cm a 100 cm 35 cm		
Filtrazione inerente Inherent filtration Filtration inhérente		0.7 mm Al eq		(IEC 522)
Capacità termica anodica Maximum anode heat content Chaleur maximale accumulée dans l'anode		225 kJ	300 kHU	
Dissipazione termica continua massima Maximum continuous heat dissipation Dissipation thermique continue maximale		750 W		
Alta tensione nominale Nominal X-ray tube voltage Haute tension nominale		130 kV		
Massima corrente di filamento Max. filament current Courant dans le filament max.		5.4 A		

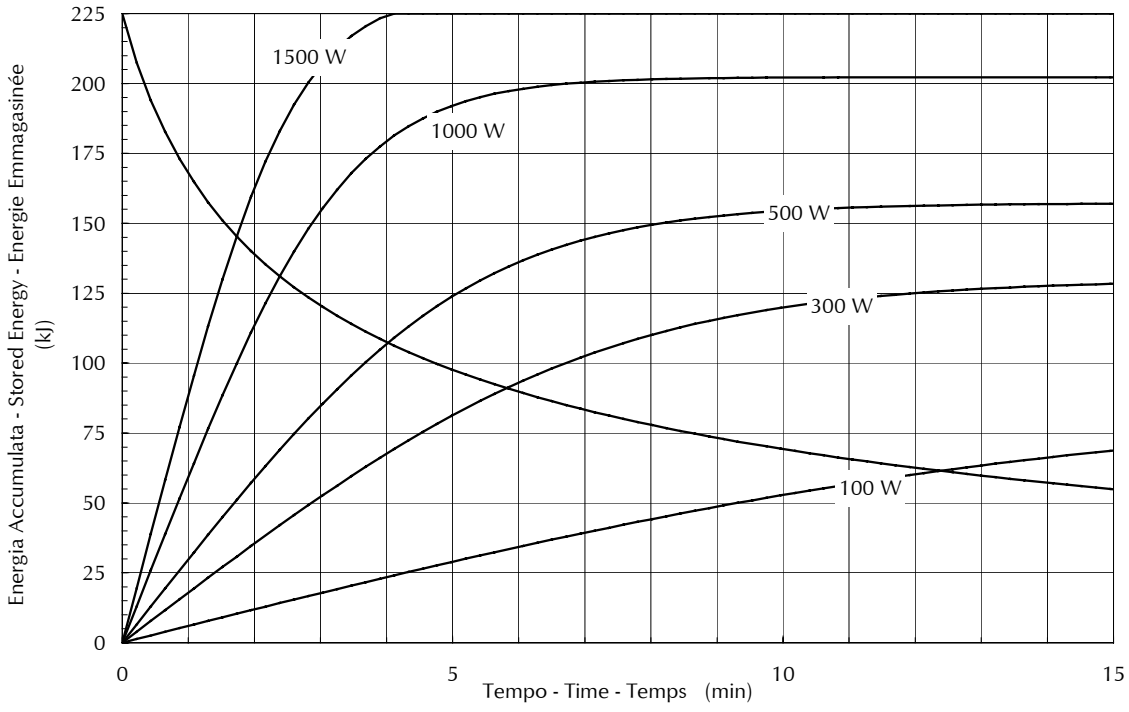
I dati forniti nella presente documentazione si intendono riferiti a:
The data indicated in this documentation refer to:
Les données indiquées dans cette documentation sont calculés pour:

Potenza anodica di equilibrio termico Equivalent anode input power Puissance anodique d'équilibre thermique	100 W =	% della capacità termica anodica % of maximum anode heat content % de chaleur max. accumulée dans l'anode	38%

Dimensioni - Dimension - Dimensions

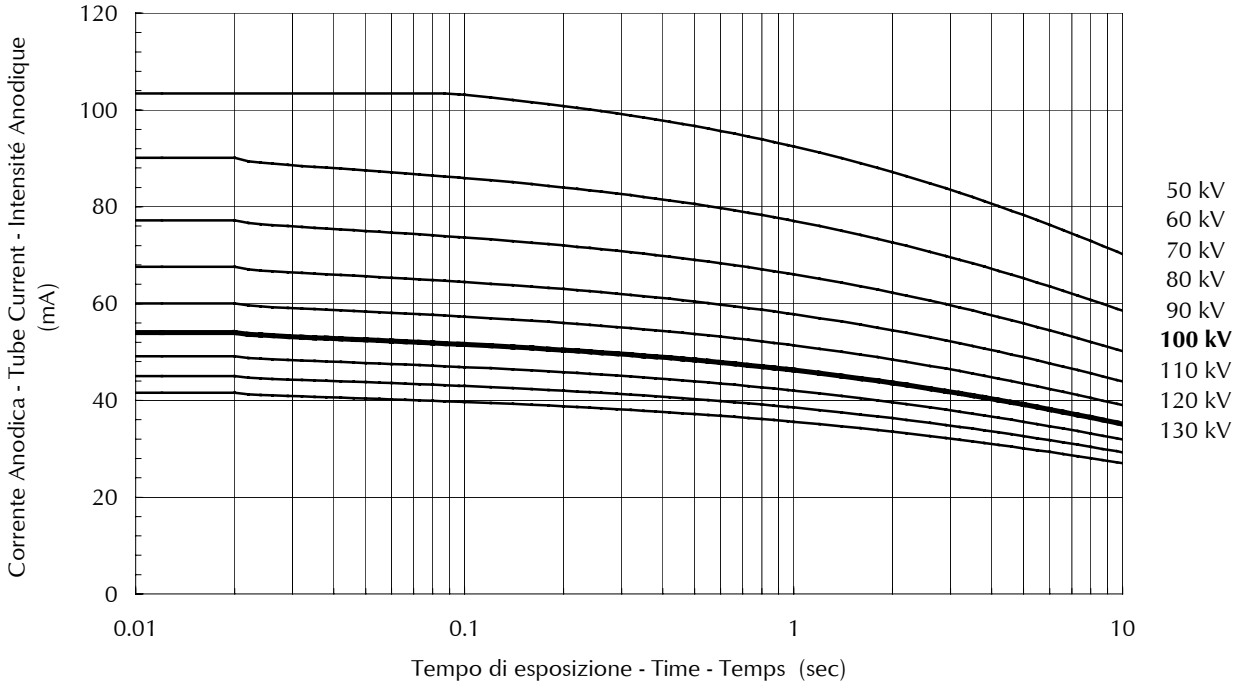


Curve di riscaldamento e raffreddamento dell'anodo
Anode heating and cooling curves
Courbes d'échauffement et de refroidissement de l'anode



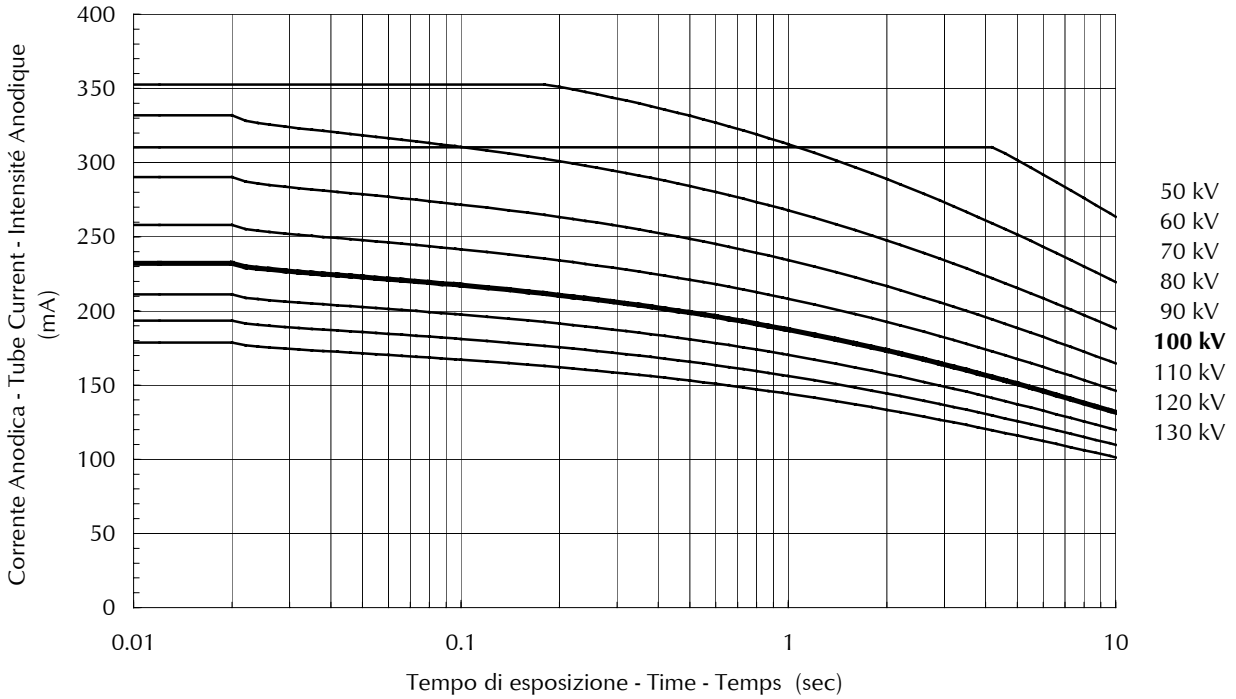
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.3 - 1 ~ - 3000 min^{-1}



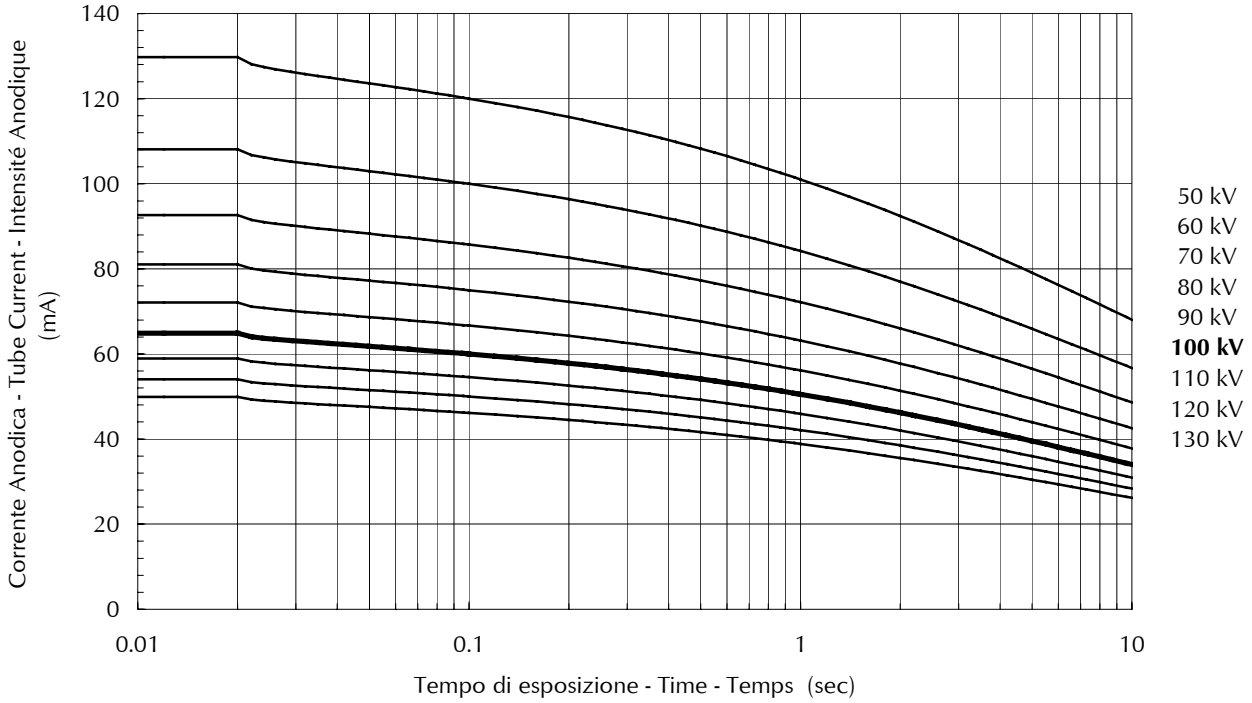
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

■ 0.6 - 1 ~ - 3000 min^{-1}



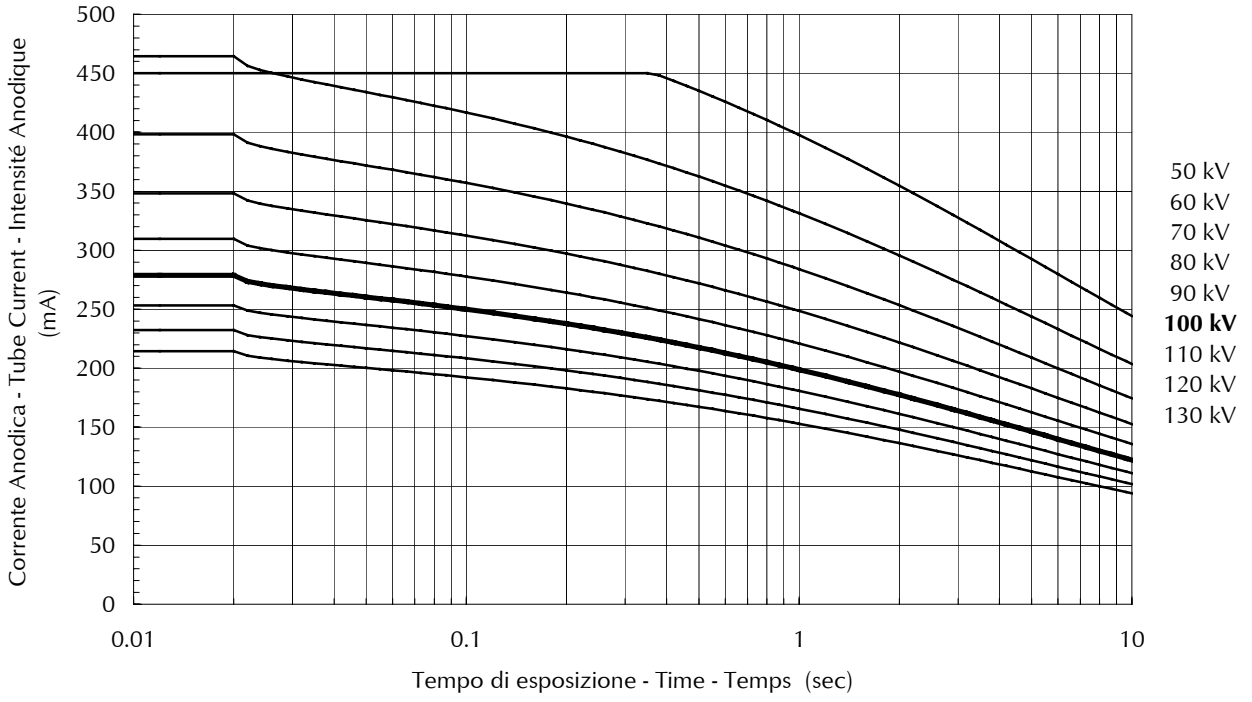
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.3 - 3 ~ - 3000 min^{-1}



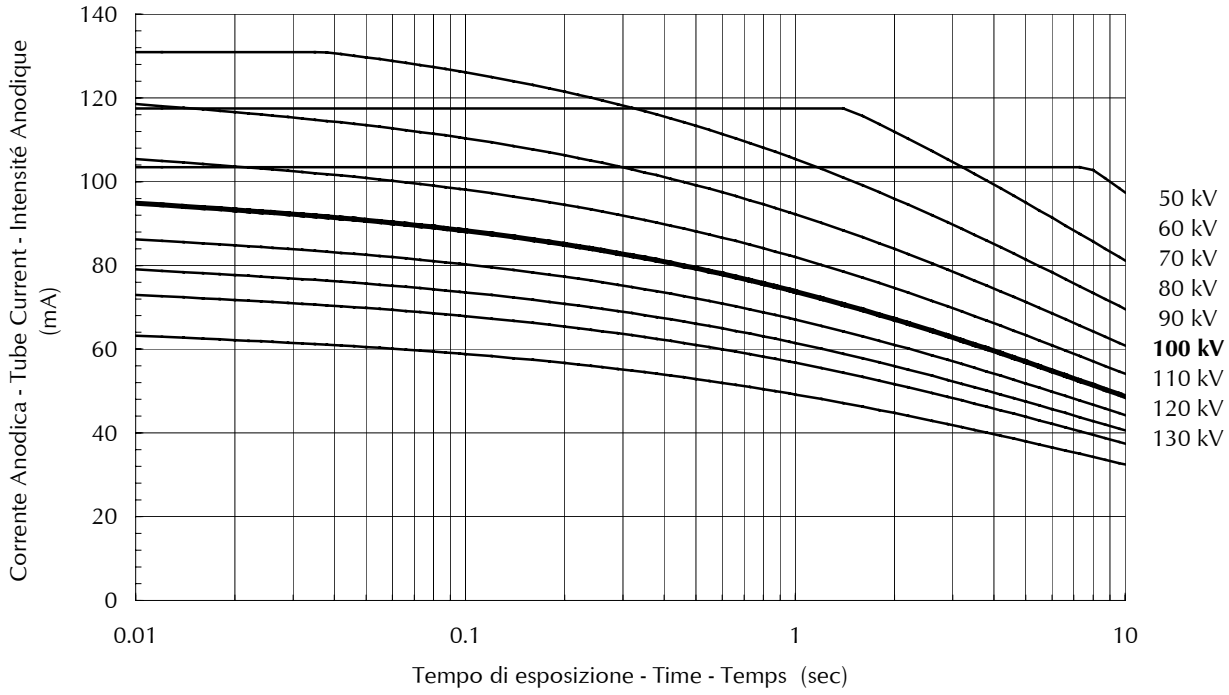
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

■ 0.6 - 3 ~ - 3000 min^{-1}



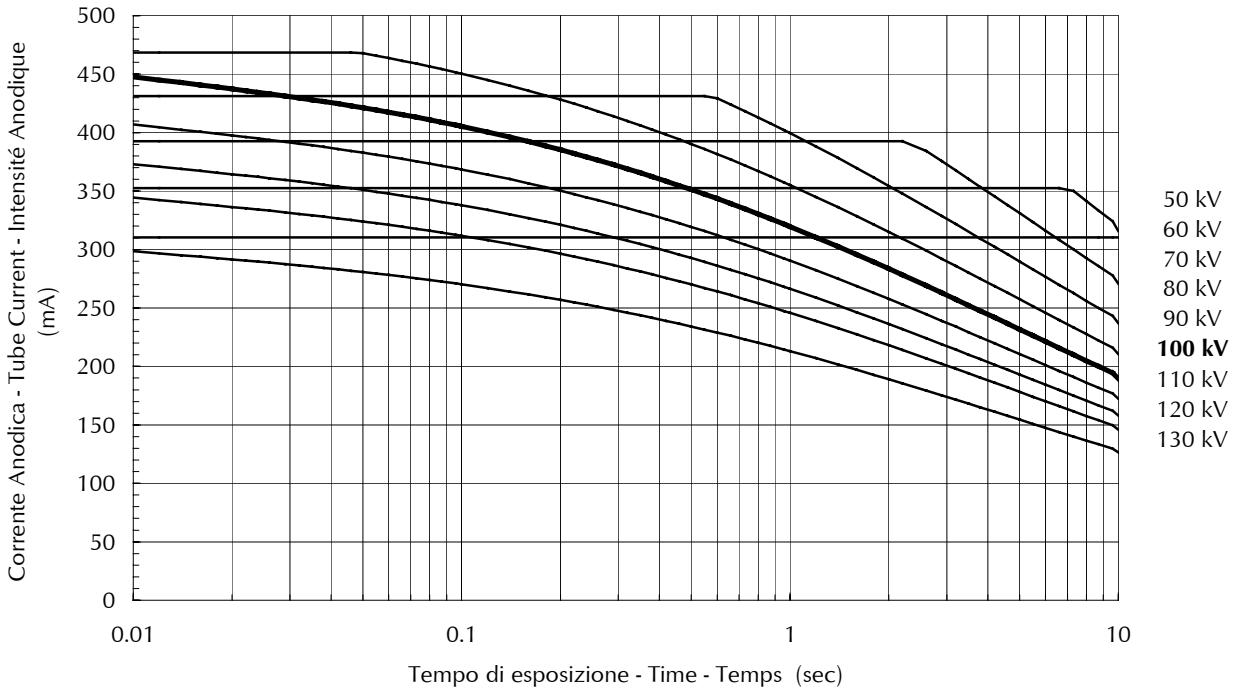
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.3 - 1 ~ - 10000 min^{-1}



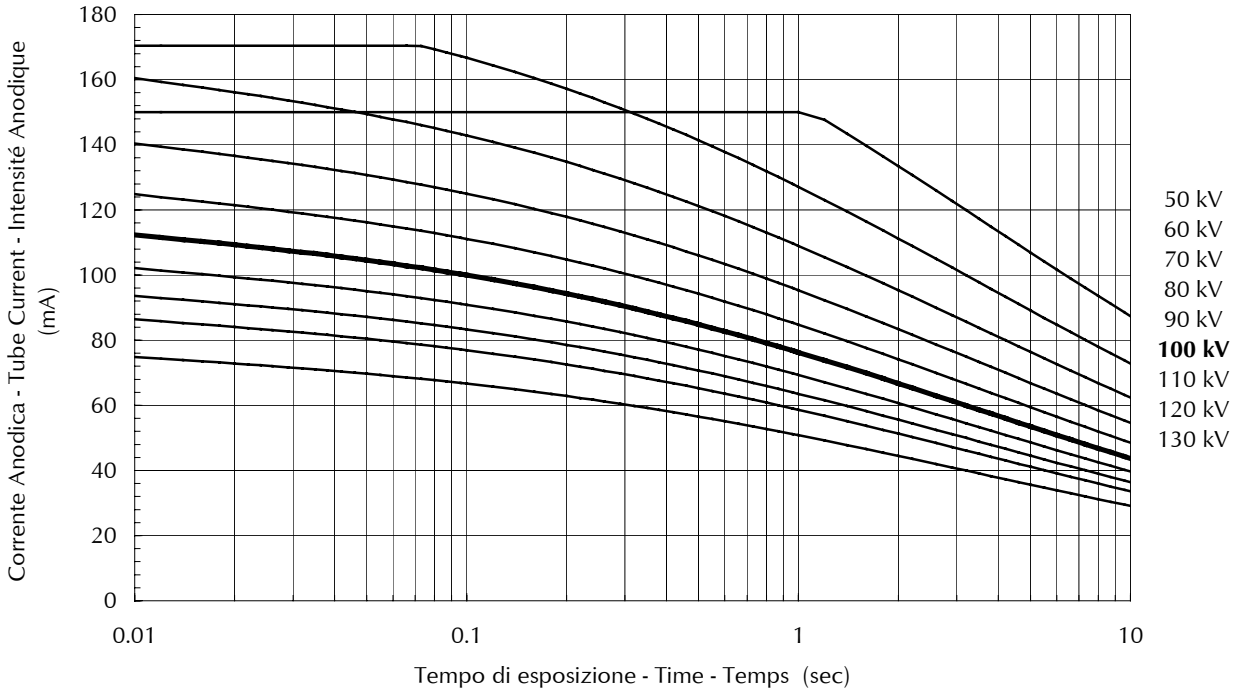
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

■ 0.6 - 1 ~ - 10000 min^{-1}



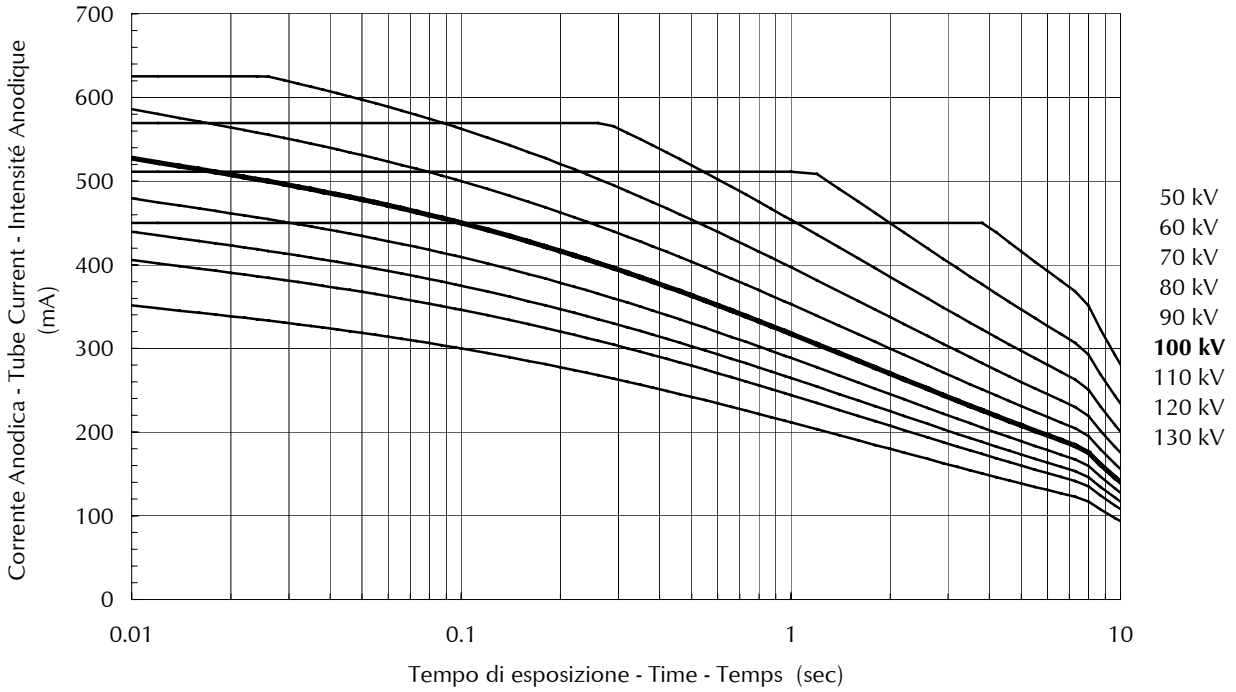
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.3 - 3 ~ - 10000 min^{-1}



CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

■ 0.6 - 3 ~ - 10000 min^{-1}



Abaco per carichi in serie - Serial load rating - Abaque de charges successives

0.3 - 1 ~ - 3000 min^{-1}

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec
Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec)
Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)

z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	4.3	4.3	4.2	4.2	4.2	4.1	4.1	4.1	4.0	4.0	4.0	3.9	3.9	3.9	3.8	
2	4.3	4.3	4.2	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.7	3.6	
3	4.2	4.2	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.8	3.8	3.7	3.7	3.6	3.5	
4	4.2	4.2	4.2	4.1	4.1	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.6	3.5	3.4	5
5	4.2	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.8	3.7	3.6	3.6	3.5	-	-	
10	4.2	4.2	4.1	4.1	4.0	3.9	3.8	3.7	-	-	-	-	-	-	-	
15	4.2	4.2	4.1	4.0	3.9	3.9	-	-	-	-	-	-	-	-	-	
30	4.2	4.1	4.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.3	4.3	4.2	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.7	3.6	
2	4.2	4.2	4.2	4.1	4.1	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.6	3.5	3.4	
3	4.2	4.2	4.2	4.1	4.1	4.0	3.9	3.8	3.7	3.7	3.6	3.5	3.4	3.4	3.3	
4	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	10
5	4.2	4.2	4.1	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	-	-	
10	4.2	4.1	4.0	4.0	3.9	3.8	3.6	3.5	-	-	-	-	-	-	-	
15	4.2	4.1	4.0	3.9	3.8	3.7	-	-	-	-	-	-	-	-	-	
30	4.2	4.0	3.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.2	4.2	4.2	4.1	4.1	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.6	3.5	3.4	
2	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	
3	4.2	4.2	4.1	4.0	4.0	3.9	3.8	3.6	3.5	3.4	3.3	3.2	3.2	3.1	3.0	
4	4.2	4.1	4.1	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.2	3.1	3.0	2.9	2.8	20
5	4.2	4.1	4.0	3.9	3.9	3.8	3.6	3.5	3.4	3.2	3.1	3.0	2.9	-	-	
10	4.2	4.1	3.9	3.8	3.7	3.6	3.4	3.2	-	-	-	-	-	-	-	
15	4.2	4.0	3.8	3.7	3.6	3.5	-	-	-	-	-	-	-	-	-	
30	4.1	3.9	3.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	
2	4.2	4.1	4.1	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.2	3.1	3.0	2.9	2.8	
3	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.2	3.0	2.9	2.8	2.7	2.6	
4	4.2	4.1	4.0	3.9	3.8	3.7	3.5	3.3	3.2	3.0	2.9	2.8	2.7	2.6	2.5	40
5	4.2	4.1	3.9	3.8	3.7	3.6	3.4	3.2	3.1	2.9	2.8	2.7	2.6	-	-	
10	4.1	3.9	3.8	3.6	3.5	3.4	3.1	2.9	-	-	-	-	-	-	-	
15	4.1	3.9	3.7	3.5	3.3	3.2	-	-	-	-	-	-	-	-	-	
30	4.0	3.7	3.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.2	4.2	4.1	4.0	4.0	3.9	3.8	3.6	3.5	3.4	3.3	3.2	3.2	3.1	3.0	
2	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.2	3.0	2.9	2.8	2.7	2.6	
3	4.2	4.1	3.9	3.8	3.7	3.6	3.4	3.3	3.1	3.0	2.9	2.7	2.6	2.5	2.4	
4	4.2	4.0	3.9	3.8	3.6	3.5	3.3	3.2	3.0	2.8	2.7	2.6	2.5	2.4	2.2	60
5	4.2	4.0	3.8	3.7	3.6	3.5	3.2	3.1	2.9	2.7	2.6	2.5	2.4	-	-	
10	4.1	3.9	3.7	3.5	3.3	3.2	2.9	2.7	-	-	-	-	-	-	-	
15	4.0	3.8	3.6	3.4	3.2	3.0	-	-	-	-	-	-	-	-	-	
30	3.9	3.6	3.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.2	4.1	4.1	4.0	3.9	3.8	3.7	3.6	3.4	3.3	3.2	3.1	3.0	2.9	2.8	
2	4.2	4.1	4.0	3.9	3.8	3.7	3.5	3.3	3.2	3.0	2.9	2.8	2.7	2.6	2.5	
3	4.2	4.0	3.9	3.8	3.6	3.5	3.3	3.2	3.0	2.8	2.7	2.6	2.5	2.4	2.2	
4	4.1	4.0	3.8	3.7	3.6	3.4	3.2	3.0	2.9	2.7	2.6	2.4	2.3	2.2	2.1	80
5	4.1	3.9	3.8	3.6	3.5	3.4	3.1	2.9	2.7	2.6	2.5	2.3	2.2	-	-	
10	4.1	3.8	3.6	3.4	3.2	3.1	2.8	2.6	-	-	-	-	-	-	-	
15	4.0	3.7	3.5	3.2	3.1	2.9	-	-	-	-	-	-	-	-	-	
30	3.9	3.5	3.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.2	4.1	4.0	3.9	3.9	3.8	3.6	3.5	3.4	3.2	3.1	3.0	2.9	2.8	2.7	
2	4.2	4.1	3.9	3.8	3.7	3.6	3.4	3.2	3.1	2.9	2.8	2.7	2.6	2.5	2.3	
3	4.2	4.0	3.8	3.7	3.6	3.5	3.2	3.1	2.9	2.7	2.6	2.5	2.4	2.3	2.1	
4	4.1	3.9	3.8	3.6	3.5	3.4	3.1	2.9	2.7	2.6	2.5	2.3	2.2	2.1	2.0	100
5	4.1	3.9	3.7	3.6	3.4	3.3	3.0	2.8	2.6	2.5	2.3	2.2	2.1	-	-	
10	4.0	3.8	3.5	3.3	3.1	3.0	2.7	2.5	-	-	-	-	-	-	-	
15	4.0	3.6	3.4	3.2	3.0	2.8	-	-	-	-	-	-	-	-	-	
30	3.8	3.4	3.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.2	4.1	4.0	3.9	3.8	3.7	3.5	3.3	3.2	3.1	2.9	2.8	2.7	2.6	2.5	
2	4.2	4.0	3.8	3.7	3.6	3.5	3.2	3.1	2.9	2.7	2.6	2.5	2.4	2.3	2.1	
3	4.1	3.9	3.8	3.6	3.4	3.3	3.1	2.9	2.7	2.5	2.4	2.3	2.1	2.0	1.9	
4	4.1	3.9	3.7	3.5	3.3	3.2	2.9	2.7	2.5	2.4	2.2	2.1	2.0	1.9	1.8	150
5	4.1	3.8	3.6	3.4	3.3	3.1	2.8	2.6	2.4	2.3	2.1	2.0	1.9	-	-	
10	4.0	3.6	3.4	3.2	3.0	2.8	2.5	2.2	-	-	-	-	-	-	-	
15	3.9	3.5	3.2	3.0	2.8	2.6	-	-	-	-	-	-	-	-	-	
30	3.7	3.3	2.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.2	4.0	3.8	3.7	3.6	3.5	3.2	3.1	2.9	2.7	2.6	2.5	2.4	2.3	2.1	
2	4.1	3.9	3.7	3.5	3.3	3.2	2.9	2.7	2.5	2.4	2.2	2.1	2.0	1.9	1.8	
3	4.0	3.8	3.6	3.4	3.2	3.0	2.7	2.5	2.3	2.2	2.0	1.9	1.8	1.7	1.5	
4	4.0	3.7	3.5	3.2	3.1	2.9	2.6	2.4	2.2	2.0	1.9	1.7	1.6	1.5	1.4	300
5	4.0	3.6	3.4	3.2	3.0	2.8	2.5	2.2	2.0	1.9	1.7	1.6	1.5	-	-	
10	3.8	3.4	3.1	2.8	2.6	2.4	2.1	1.9	-	-	-	-	-	-	-	
15	3.7	3.3	2.9	2.6	2.4	2.2	-	-	-	-	-	-	-	-	-	
30	3.5	3.0	2.6	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives

■ 0.6 - 1 ~ - 3000 min^{-1}

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec
Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec)
Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)

z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	18.3	18.3	18.0	17.7	17.6	17.4	17.2	17.0	16.8	16.6	16.5	16.4	16.1	15.9	15.6	
2	18.2	18.2	18.0	17.7	17.6	17.4	17.1	16.8	16.5	16.2	15.9	15.6	15.3	15.1	14.7	
3	18.1	18.1	17.9	17.7	17.4	17.2	16.8	16.4	16.1	15.7	15.4	15.1	14.7	14.4	14.0	
4	18.0	18.0	17.8	17.5	17.3	17.0	16.6	16.2	15.7	15.4	15.0	14.6	14.3	14.0	13.5	5
5	18.0	18.0	17.7	17.4	17.1	16.9	16.4	15.9	15.5	15.1	14.7	14.3	13.9	-	-	
10	18.0	17.7	17.4	17.0	16.6	16.3	15.6	15.1	-	-	-	-	-	-	-	
15	18.0	17.6	17.1	16.7	16.3	15.9	-	-	-	-	-	-	-	-	-	
30	17.9	17.2	16.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.2	18.2	18.0	17.7	17.6	17.4	17.1	16.8	16.5	16.2	15.9	15.6	15.3	15.0	14.7	
2	18.0	18.0	17.8	17.5	17.3	17.0	16.6	16.1	15.7	15.3	15.0	14.6	14.3	13.9	13.5	
3	18.0	17.9	17.6	17.3	17.0	16.7	16.2	15.7	15.2	14.8	14.3	13.9	13.6	13.2	12.7	
4	18.0	17.8	17.5	17.1	16.8	16.5	15.9	15.3	14.8	14.3	13.9	13.4	13.0	12.7	12.1	10
5	18.0	17.7	17.3	17.0	16.6	16.3	15.6	15.0	14.5	13.9	13.5	13.0	12.6	-	-	
10	18.0	17.4	16.9	16.4	15.9	15.5	14.7	13.9	-	-	-	-	-	-	-	
15	17.9	17.2	16.6	16.0	15.4	14.9	-	-	-	-	-	-	-	-	-	
30	17.6	16.7	15.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.0	18.0	17.8	17.5	17.3	17.0	16.6	16.1	15.7	15.3	15.0	14.6	14.3	13.9	13.5	
2	18.0	17.8	17.5	17.1	16.8	16.5	15.9	15.3	14.8	14.3	13.8	13.4	13.0	12.6	12.1	
3	18.0	17.7	17.2	16.8	16.4	16.1	15.4	14.7	14.1	13.6	13.1	12.6	12.2	11.8	11.2	
4	18.0	17.5	17.0	16.6	16.1	15.7	15.0	14.3	13.6	13.1	12.5	12.0	11.6	11.2	10.6	20
5	18.0	17.4	16.9	16.4	15.9	15.5	14.6	13.9	13.2	12.6	12.1	11.6	11.1	-	-	
10	17.7	17.0	16.3	15.6	15.0	14.5	13.5	12.6	-	-	-	-	-	-	-	
15	17.6	16.6	15.8	15.1	14.4	13.8	-	-	-	-	-	-	-	-	-	
30	17.2	16.0	14.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.0	17.8	17.5	17.1	16.8	16.5	15.9	15.3	14.8	14.3	13.8	13.4	13.0	12.6	12.1	
2	18.0	17.5	17.0	16.6	16.1	15.7	15.0	14.3	13.6	13.1	12.5	12.0	11.6	11.2	10.6	
3	17.9	17.3	16.7	16.2	15.7	15.2	14.3	13.6	12.9	12.2	11.7	11.2	10.7	10.2	9.7	
4	17.8	17.1	16.5	15.9	15.3	14.8	13.8	13.0	12.3	11.6	11.0	10.5	10.0	9.6	9.0	40
5	17.7	17.0	16.3	15.6	15.0	14.4	13.4	12.6	11.8	11.1	10.5	10.0	9.5	-	-	
10	17.4	16.4	15.5	14.6	13.9	13.2	12.1	11.1	-	-	-	-	-	-	-	
15	17.2	15.9	14.9	14.0	13.2	12.4	-	-	-	-	-	-	-	-	-	
30	16.6	15.1	13.8	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.0	17.7	17.2	16.8	16.4	16.1	15.4	14.7	14.1	13.6	13.1	12.6	11.5	10.5	9.2	
2	17.9	17.3	16.7	16.2	15.7	15.2	14.3	13.6	12.9	12.2	11.7	11.1	10.5	9.5	8.4	
3	17.8	17.0	16.4	15.7	15.1	14.6	13.6	12.8	12.0	11.4	10.8	10.2	9.7	9.2	8.1	
4	17.7	16.8	16.1	15.4	14.7	14.1	13.1	12.2	11.4	10.7	10.1	9.6	9.1	8.6	7.9	60
5	17.6	16.6	15.8	15.1	14.4	13.8	12.7	11.7	10.9	10.2	9.6	9.0	8.6	-	-	
10	17.2	15.9	14.9	14.0	13.1	12.4	11.2	10.2	-	-	-	-	-	-	-	
15	16.9	15.5	14.3	13.2	12.3	11.6	-	-	-	-	-	-	-	-	-	
30	16.3	14.5	13.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.0	17.5	17.0	16.6	16.1	15.7	15.0	14.3	13.6	13.1	11.5	10.2	9.2	8.4	7.4	
2	17.8	17.1	16.5	15.9	15.3	14.8	13.8	13.0	12.3	11.6	10.1	9.0	8.1	7.4	6.5	
3	17.7	16.8	16.1	15.4	14.7	14.1	13.1	12.2	11.4	10.7	9.7	8.6	7.7	7.0	6.2	
4	17.5	16.6	15.7	15.0	14.3	13.6	12.5	11.6	10.8	10.1	9.4	8.4	7.6	6.9	6.1	80
5	17.4	16.4	15.4	14.6	13.9	13.2	12.1	11.1	10.3	9.5	8.9	8.3	7.5	-	-	
10	17.0	15.6	14.4	13.4	12.6	11.8	10.5	9.5	-	-	-	-	-	-	-	
15	16.6	15.1	13.8	12.7	11.7	10.9	-	-	-	-	-	-	-	-	-	
30	15.9	14.0	12.4	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.0	17.4	16.9	16.4	15.9	15.4	14.6	13.9	13.0	11.1	9.7	8.7	7.8	7.1	6.2	
2	17.7	17.0	16.2	15.6	15.0	14.4	13.4	12.6	11.2	9.6	8.4	7.5	6.7	6.1	5.4	
3	17.6	16.6	15.8	15.1	14.4	13.7	12.7	11.7	10.6	9.1	7.9	7.0	6.3	5.8	5.1	
4	17.4	16.4	15.4	14.6	13.9	13.2	12.1	11.1	10.3	8.8	7.7	6.8	6.2	5.6	4.9	100
5	17.3	16.1	15.1	14.3	13.5	12.8	11.6	10.6	9.7	8.6	7.6	6.7	6.1	-	-	
10	16.8	15.3	14.1	13.0	12.1	11.3	10.0	9.0	-	-	-	-	-	-	-	
15	16.4	14.7	13.3	12.2	11.2	10.4	-	-	-	-	-	-	-	-	-	
30	15.7	13.6	12.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	17.8	17.2	16.5	15.9	15.4	14.9	14.0	11.8	9.9	8.5	7.4	6.6	5.9	5.4	4.7	
2	17.6	16.6	15.8	15.1	14.4	13.7	12.1	9.7	8.1	6.9	6.0	5.4	4.8	4.4	3.9	
3	17.3	16.2	15.3	14.4	13.7	13.0	11.2	8.9	7.5	6.4	5.6	5.0	4.5	4.1	3.6	
4	17.2	15.9	14.9	14.0	13.1	12.4	10.7	8.6	7.1	6.1	5.4	4.8	4.3	3.9	3.4	150
5	17.0	15.7	14.5	13.6	12.7	11.9	10.5	8.4	7.0	6.0	5.2	4.6	4.2	-	-	
10	16.4	14.7	13.3	12.2	11.2	10.4	9.1	7.9	-	-	-	-	-	-	-	
15	16.0	14.1	12.5	11.3	10.3	9.5	-	-	-	-	-	-	-	-	-	
30	15.1	12.8	11.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	17.6	16.6	15.8	15.1	14.4	13.5	10.1	8.1	6.8	5.8	5.1	4.5	4.1	3.7	3.2	
2	17.2	15.9	14.9	14.0	11.8	9.9	7.4	5.9	4.9	4.2	3.7	3.3	3.0	2.7	2.4	
3	16.9	15.4	14.2	13.0	10.4	8.7	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.4	2.1	
4	16.6	15.1	13.7	12.1	9.7	8.1	6.0	4.8	4.0	3.5	3.0	2.7	2.4	2.2	1.9	300
5	16.4	14.7	13.3	11.5	9.2	7.7	5.8	4.6	3.8	3.3	2.9	2.6	2.3	-	-	
10	15.7	13.6	11.9	10.5	8.4	7.0	5.2	4.2	-	-	-	-	-	-	-	
15	15.1	12.8	11.1	9.7	8.1	6.7	-	-	-	-	-	-	-	-	-	
30	14.1	11.3	9.5	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives

0.3 - 3 ~ - 3000 min^{-1}

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec) Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)																
z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	5.1	5.1	5.0	5.0	4.9	4.9	4.8	4.8	4.8	4.7	4.7	4.7	4.6	4.5	4.5	
2	5.1	5.1	5.0	5.0	4.9	4.9	4.8	4.8	4.7	4.6	4.5	4.5	4.4	4.3	4.2	
3	5.1	5.1	5.0	5.0	4.9	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.3	4.2	4.1	
4	5.1	5.1	5.0	4.9	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.1	3.9	5
5	5.0	5.0	5.0	4.9	4.8	4.8	4.7	4.5	4.4	4.3	4.2	4.1	4.0	-	-	
10	5.0	5.0	4.9	4.8	4.7	4.6	4.5	4.3	-	-	-	-	-	-	-	
15	5.0	5.0	4.8	4.7	4.6	4.5	-	-	-	-	-	-	-	-	-	
30	5.0	4.9	4.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	5.1	5.1	5.0	5.0	4.9	4.9	4.8	4.8	4.7	4.6	4.5	4.5	4.4	4.3	4.2	
2	5.1	5.1	5.0	4.9	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	
3	5.0	5.0	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.1	4.0	4.0	3.9	3.7	
4	5.0	5.0	4.9	4.8	4.8	4.7	4.5	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.6	10
5	5.0	5.0	4.9	4.8	4.7	4.6	4.5	4.3	4.2	4.0	3.9	3.8	3.7	-	-	
10	5.0	4.9	4.8	4.7	4.5	4.4	4.2	4.0	-	-	-	-	-	-	-	
15	5.0	4.9	4.7	4.6	4.4	4.3	-	-	-	-	-	-	-	-	-	
30	5.0	4.7	4.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	5.1	5.1	5.0	4.9	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	
2	5.0	5.0	4.9	4.8	4.8	4.7	4.5	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.6	
3	5.0	5.0	4.9	4.8	4.7	4.6	4.4	4.2	4.1	4.0	3.8	3.7	3.6	3.5	3.3	
4	5.0	4.9	4.8	4.7	4.6	4.5	4.3	4.1	4.0	3.8	3.7	3.6	3.4	3.3	3.2	20
5	5.0	4.9	4.8	4.7	4.5	4.4	4.2	4.0	3.9	3.7	3.6	3.4	3.3	-	-	
10	5.0	4.8	4.6	4.5	4.3	4.2	3.9	3.7	-	-	-	-	-	-	-	
15	4.9	4.7	4.5	4.3	4.2	4.0	-	-	-	-	-	-	-	-	-	
30	4.9	4.6	4.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	5.0	5.0	4.9	4.8	4.8	4.7	4.5	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.6	
2	5.0	4.9	4.8	4.7	4.6	4.5	4.3	4.1	4.0	3.8	3.7	3.6	3.4	3.3	3.2	
3	5.0	4.9	4.7	4.6	4.5	4.4	4.1	3.9	3.8	3.6	3.5	3.3	3.2	3.1	2.9	
4	5.0	4.8	4.7	4.5	4.4	4.3	4.0	3.8	3.6	3.4	3.3	3.1	3.0	2.9	2.7	40
5	5.0	4.8	4.6	4.5	4.3	4.2	3.9	3.7	3.5	3.3	3.1	3.0	2.9	-	-	
10	4.9	4.7	4.4	4.2	4.0	3.9	3.6	3.3	-	-	-	-	-	-	-	
15	4.8	4.6	4.3	4.1	3.8	3.7	-	-	-	-	-	-	-	-	-	
30	4.7	4.3	4.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	5.0	5.0	4.9	4.8	4.7	4.6	4.4	4.2	4.1	4.0	3.8	3.7	3.6	3.5	3.3	
2	5.0	4.9	4.7	4.6	4.5	4.4	4.1	3.9	3.8	3.6	3.5	3.3	3.2	3.1	2.9	
3	5.0	4.8	4.7	4.5	4.4	4.2	4.0	3.7	3.6	3.4	3.2	3.1	2.9	2.8	2.6	
4	5.0	4.8	4.6	4.4	4.2	4.1	3.8	3.6	3.4	3.2	3.0	2.9	2.7	2.6	2.5	60
5	4.9	4.7	4.5	4.3	4.2	4.0	3.7	3.5	3.3	3.1	2.9	2.7	2.6	-	-	
10	4.8	4.6	4.3	4.1	3.8	3.7	3.3	3.0	-	-	-	-	-	-	-	
15	4.8	4.4	4.1	3.9	3.6	3.4	-	-	-	-	-	-	-	-	-	
30	4.6	4.2	3.8	-	-	-	-	-	-	-	-	-	-	-	-	
1	5.0	4.9	4.8	4.7	4.6	4.5	4.3	4.1	4.0	3.8	3.7	3.5	3.4	3.3	3.2	
2	5.0	4.8	4.7	4.5	4.4	4.3	4.0	3.8	3.6	3.4	3.3	3.1	3.0	2.9	2.7	
3	5.0	4.8	4.6	4.4	4.2	4.1	3.8	3.6	3.4	3.2	3.0	2.9	2.7	2.6	2.5	
4	4.9	4.7	4.5	4.3	4.1	4.0	3.7	3.4	3.2	3.0	2.9	2.7	2.6	2.4	2.3	80
5	4.9	4.7	4.4	4.2	4.0	3.9	3.6	3.3	3.1	2.9	2.7	2.6	2.4	-	-	
10	4.8	4.5	4.2	3.9	3.7	3.5	3.1	2.9	-	-	-	-	-	-	-	
15	4.7	4.3	4.0	3.7	3.5	3.3	-	-	-	-	-	-	-	-	-	
30	4.6	4.1	3.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	5.0	4.9	4.8	4.7	4.5	4.4	4.2	4.0	3.9	3.7	3.6	3.4	3.3	3.2	3.0	
2	5.0	4.8	4.6	4.5	4.3	4.2	3.9	3.7	3.5	3.3	3.1	3.0	2.9	2.7	2.6	
3	4.9	4.7	4.5	4.3	4.2	4.0	3.7	3.5	3.3	3.1	2.9	2.7	2.6	2.5	2.3	
4	4.9	4.7	4.4	4.2	4.0	3.9	3.6	3.3	3.1	2.9	2.7	2.6	2.4	2.3	2.1	100
5	4.9	4.6	4.4	4.1	3.9	3.7	3.4	3.2	2.9	2.7	2.6	2.4	2.3	-	-	
10	4.8	4.4	4.1	3.8	3.6	3.4	3.0	2.7	-	-	-	-	-	-	-	
15	4.7	4.2	3.9	3.6	3.3	3.1	-	-	-	-	-	-	-	-	-	
30	4.5	4.0	3.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	3.8	3.7	3.5	3.3	3.2	3.0	2.9	2.8	
2	4.9	4.7	4.5	4.3	4.2	4.0	3.7	3.5	3.3	3.1	2.9	2.7	2.6	2.5	2.3	
3	4.9	4.6	4.4	4.2	4.0	3.8	3.5	3.2	3.0	2.8	2.6	2.5	2.3	2.2	2.1	
4	4.8	4.6	4.3	4.1	3.8	3.7	3.3	3.0	2.8	2.6	2.4	2.3	2.2	2.0	1.9	150
5	4.8	4.5	4.2	3.9	3.7	3.5	3.2	2.9	2.7	2.5	2.3	2.1	2.0	-	-	
10	4.7	4.2	3.9	3.6	3.3	3.1	2.7	2.5	-	-	-	-	-	-	-	
15	4.6	4.1	3.7	3.4	3.1	2.9	-	-	-	-	-	-	-	-	-	
30	4.4	3.7	3.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	4.9	4.7	4.5	4.3	4.2	4.0	3.7	3.5	3.3	3.1	2.9	2.7	2.6	2.5	2.3	
2	4.8	4.6	4.3	4.1	3.8	3.7	3.3	3.0	2.8	2.6	2.4	2.3	2.2	2.0	1.9	
3	4.8	4.4	4.1	3.9	3.6	3.4	3.1	2.8	2.6	2.4	2.2	2.0	1.9	1.8	1.6	
4	4.7	4.3	4.0	3.7	3.5	3.3	2.9	2.6	2.4	2.2	2.0	1.9	1.7	1.6	1.5	300
5	4.7	4.2	3.9	3.6	3.3	3.1	2.7	2.5	2.2	2.0	1.9	1.7	1.6	-	-	
10	4.5	3.9	3.5	3.2	2.9	2.7	2.3	2.0	-	-	-	-	-	-	-	
15	4.4	3.7	3.3	2.9	2.6	2.4	-	-	-	-	-	-	-	-	-	
30	4.1	3.4	2.9	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives

■ 0.6 - 3 ~ - 3000 min^{-1}

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec
Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec)
Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)

z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	21.9	21.9	21.4	21.1	20.8	20.6	20.3	20.0	19.8	19.5	19.4	19.2	18.9	18.6	18.2	
2	21.7	21.7	21.4	21.1	20.8	20.6	20.2	19.8	19.3	18.9	18.5	18.1	17.8	17.4	16.9	
3	21.6	21.6	21.3	21.0	20.7	20.4	19.8	19.3	18.8	18.3	17.8	17.4	17.0	16.6	16.0	
4	21.5	21.5	21.2	20.8	20.5	20.1	19.5	18.9	18.3	17.8	17.3	16.8	16.4	16.0	15.4	5
5	21.4	21.4	21.0	20.6	20.3	19.9	19.2	18.6	18.0	17.4	16.9	16.4	15.9	-	-	
10	21.4	21.1	20.6	20.0	19.5	19.1	18.2	17.4	-	-	-	-	-	-	-	
15	21.4	20.9	20.2	19.6	19.1	18.5	-	-	-	-	-	-	-	-	-	
30	21.3	20.4	19.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.7	21.7	21.4	21.1	20.8	20.6	20.2	19.8	19.3	18.9	18.5	18.1	17.7	17.4	16.9	
2	21.5	21.5	21.1	20.8	20.4	20.1	19.5	18.9	18.3	17.8	17.3	16.8	16.4	15.9	15.3	
3	21.4	21.3	20.9	20.5	20.1	19.7	18.9	18.3	17.6	17.0	16.5	15.9	15.4	15.0	14.3	
4	21.4	21.2	20.7	20.2	19.8	19.3	18.5	17.8	17.1	16.4	15.8	15.3	14.8	14.3	13.6	10
5	21.4	21.1	20.5	20.0	19.5	19.0	18.2	17.3	16.6	15.9	15.3	14.7	14.2	-	-	
10	21.4	20.6	19.9	19.2	18.6	18.0	16.9	15.9	-	-	-	-	-	-	-	
15	21.3	20.3	19.4	18.6	17.9	17.2	-	-	-	-	-	-	-	-	-	
30	20.9	19.6	18.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.5	21.5	21.1	20.8	20.4	20.1	19.5	18.9	18.3	17.8	17.3	16.8	16.4	15.9	15.3	
2	21.4	21.2	20.7	20.2	19.8	19.3	18.5	17.7	17.1	16.4	15.8	15.3	14.7	14.3	13.6	
3	21.4	21.0	20.4	19.8	19.3	18.8	17.8	17.0	16.2	15.5	14.8	14.2	13.7	13.2	12.5	
4	21.4	20.8	20.1	19.5	18.9	18.3	17.3	16.4	15.5	14.8	14.1	13.5	12.9	12.4	11.7	20
5	21.4	20.6	19.9	19.2	18.5	17.9	16.8	15.9	15.0	14.2	13.5	12.9	12.3	-	-	
10	21.1	20.0	19.0	18.2	17.3	16.6	15.3	14.2	-	-	-	-	-	-	-	
15	20.8	19.6	18.4	17.4	16.5	15.7	-	-	-	-	-	-	-	-	-	
30	20.3	18.6	17.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.4	21.2	20.7	20.2	19.8	19.3	18.5	17.7	17.0	16.4	15.8	15.3	14.7	14.3	13.0	
2	21.4	20.8	20.1	19.5	18.9	18.3	17.3	16.4	15.5	14.8	14.1	13.5	12.9	12.4	11.7	
3	21.3	20.5	19.7	18.9	18.2	17.6	16.5	15.4	14.5	13.7	13.0	12.4	11.8	11.3	10.6	
4	21.2	20.2	19.3	18.5	17.7	17.1	15.8	14.7	13.8	13.0	12.2	11.6	11.0	10.5	9.8	40
5	21.1	20.0	19.0	18.1	17.3	16.6	15.3	14.2	13.2	12.4	11.6	11.0	10.4	-	-	
10	20.6	19.2	17.9	16.8	15.9	15.0	13.5	12.3	-	-	-	-	-	-	-	
15	20.3	18.6	17.2	16.0	14.9	14.0	-	-	-	-	-	-	-	-	-	
30	19.6	17.4	15.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.4	21.0	20.4	19.8	19.3	18.8	17.8	17.0	16.2	15.5	14.4	12.8	11.5	10.5	9.2	
2	21.3	20.5	19.7	18.9	18.2	17.6	16.4	15.4	14.5	13.7	13.0	11.6	10.5	9.5	8.4	
3	21.1	20.1	19.2	18.3	17.5	16.8	15.5	14.4	13.5	12.7	11.9	11.2	10.1	9.2	8.1	
4	21.0	19.8	18.8	17.8	17.0	16.2	14.8	13.7	12.7	11.9	11.1	10.5	9.9	9.0	7.9	60
5	20.8	19.5	18.4	17.4	16.5	15.7	14.3	13.1	12.1	11.2	10.5	9.8	9.3	-	-	
10	20.3	18.6	17.2	16.0	14.9	14.0	12.4	11.2	-	-	-	-	-	-	-	
15	19.9	17.9	16.3	15.0	13.9	12.9	-	-	-	-	-	-	-	-	-	
30	19.0	16.6	14.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.4	20.8	20.1	19.5	18.9	18.3	17.3	16.4	15.3	13.1	11.5	10.2	9.2	8.4	7.4	
2	21.2	20.2	19.3	18.5	17.7	17.0	15.8	14.7	13.5	11.6	10.1	9.0	8.1	7.4	6.5	
3	21.0	19.8	18.8	17.8	17.0	16.2	14.8	13.7	12.7	11.1	9.7	8.6	7.7	7.0	6.2	
4	20.8	19.5	18.3	17.3	16.4	15.5	14.1	12.9	11.9	10.8	9.5	8.4	7.6	6.9	6.1	80
5	20.6	19.2	17.9	16.8	15.9	15.0	13.5	12.3	11.3	10.4	9.3	8.3	7.5	-	-	
10	20.0	18.1	16.6	15.3	14.2	13.2	11.6	10.4	-	-	-	-	-	-	-	
15	19.6	17.4	15.7	14.3	13.1	12.1	-	-	-	-	-	-	-	-	-	
30	18.6	16.0	14.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.4	20.6	19.9	19.2	18.5	17.9	16.8	15.6	13.0	11.1	9.7	8.7	7.8	7.1	6.2	
2	21.1	20.0	19.0	18.1	17.3	16.6	15.3	13.4	11.2	9.6	8.4	7.5	6.7	6.1	5.4	
3	20.8	19.5	18.4	17.4	16.5	15.7	14.3	12.7	10.6	9.1	7.9	7.0	6.3	5.8	5.1	
4	20.6	19.2	17.9	16.8	15.9	15.0	13.5	12.3	10.3	8.8	7.7	6.8	6.2	5.6	4.9	100
5	20.4	18.9	17.5	16.4	15.3	14.4	12.9	11.7	10.1	8.6	7.6	6.7	6.1	-	-	
10	19.8	17.7	16.1	14.7	13.6	12.6	11.0	9.8	-	-	-	-	-	-	-	
15	19.3	17.0	15.2	13.7	12.5	11.5	-	-	-	-	-	-	-	-	-	
30	18.3	15.4	13.4	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.2	20.3	19.4	18.6	17.9	17.2	14.8	11.8	9.9	8.5	7.4	6.6	5.9	5.4	4.7	
2	20.8	19.5	18.4	17.4	16.5	15.7	12.1	9.7	8.1	6.9	6.0	5.4	4.8	4.4	3.9	
3	20.5	19.0	17.7	16.6	15.6	14.7	11.2	8.9	7.5	6.4	5.6	5.0	4.5	4.1	3.6	
4	20.3	18.6	17.2	16.0	14.9	14.0	10.7	8.6	7.1	6.1	5.4	4.8	4.3	3.9	3.4	150
5	20.1	18.2	16.7	15.4	14.3	13.4	10.5	8.4	7.0	6.0	5.2	4.6	4.2	-	-	
10	19.3	17.0	15.2	13.7	12.5	11.5	9.9	7.9	-	-	-	-	-	-	-	
15	18.7	16.1	14.1	12.6	11.4	10.4	-	-	-	-	-	-	-	-	-	
30	17.5	14.4	12.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	20.8	19.5	18.4	17.4	16.2	13.5	10.1	8.1	6.8	5.8	5.1	4.5	4.1	3.7	3.2	
2	20.3	18.6	17.2	14.8	11.8	9.9	7.4	5.9	4.9	4.2	3.7	3.3	3.0	2.7	2.4	
3	19.9	17.9	16.3	13.0	10.4	8.7	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.4	2.1	
4	19.5	17.4	15.7	12.1	9.7	8.1	6.0	4.8	4.0	3.5	3.0	2.7	2.4	2.2	1.9	300
5	19.3	17.0	15.2	11.5	9.2	7.7	5.8	4.6	3.8	3.3	2.9	2.6	2.3	-	-	
10	18.2	15.4	13.4	10.5	8.4	7.0	5.2	4.2	-	-	-	-	-	-	-	
15	17.5	14.4	12.3	10.1	8.1	6.7	-	-	-	-	-	-	-	-	-	
30	16.1	12.6	10.4	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives

0.3 - 1 ~ - 10000 min^{-1}

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec
Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec)
Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)

z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	7.5	7.4	7.2	7.2	7.1	7.0	6.9	6.8	6.7	6.7	6.6	6.5	6.5	6.4	6.2	
2	7.5	7.4	7.2	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.3	6.2	6.1	5.9	5.8	
3	7.5	7.4	7.2	7.2	7.1	7.0	6.8	6.6	6.4	6.3	6.1	5.9	5.8	5.6	5.4	
4	7.5	7.4	7.2	7.2	7.1	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.6	5.4	5.2	5
5	7.5	7.4	7.2	7.1	7.0	6.8	6.6	6.4	6.1	5.9	5.7	5.6	5.4	-	-	
10	7.5	7.3	7.1	6.9	6.7	6.5	6.2	5.9	-	-	-	-	-	-	-	
15	7.5	7.2	7.0	6.7	6.5	6.3	-	-	-	-	-	-	-	-	-	
30	7.4	7.0	6.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	7.5	7.4	7.2	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.3	6.2	6.1	5.9	5.8	
2	7.5	7.4	7.2	7.2	7.0	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.6	5.4	5.2	
3	7.5	7.4	7.2	7.1	6.9	6.8	6.5	6.2	6.0	5.8	5.6	5.4	5.2	5.1	4.8	
4	7.5	7.3	7.1	7.0	6.8	6.6	6.3	6.1	5.8	5.6	5.4	5.2	5.0	4.8	4.6	10
5	7.5	7.3	7.1	6.9	6.7	6.5	6.2	5.9	5.6	5.4	5.2	5.0	4.8	-	-	
10	7.4	7.1	6.8	6.6	6.4	6.1	5.7	5.4	-	-	-	-	-	-	-	
15	7.3	7.0	6.7	6.4	6.1	5.9	-	-	-	-	-	-	-	-	-	
30	7.2	6.7	6.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	7.5	7.4	7.2	7.2	7.0	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.6	5.4	5.2	
2	7.5	7.3	7.1	7.0	6.8	6.6	6.3	6.1	5.8	5.6	5.4	5.2	5.0	4.8	4.6	
3	7.5	7.2	7.0	6.8	6.6	6.4	6.1	5.8	5.5	5.3	5.0	4.8	4.6	4.4	4.2	
4	7.4	7.2	6.9	6.7	6.5	6.3	5.9	5.6	5.3	5.0	4.8	4.5	4.3	4.2	3.9	20
5	7.4	7.1	6.8	6.6	6.4	6.1	5.7	5.4	5.1	4.8	4.6	4.3	4.1	-	-	
10	7.3	6.9	6.5	6.2	5.9	5.6	5.2	4.8	-	-	-	-	-	-	-	
15	7.2	6.7	6.3	5.9	5.6	5.3	-	-	-	-	-	-	-	-	-	
30	7.0	6.4	5.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	7.5	7.3	7.1	7.0	6.8	6.6	6.3	6.1	5.8	5.6	5.4	5.2	5.0	4.8	4.6	
2	7.4	7.2	6.9	6.7	6.5	6.3	5.9	5.6	5.3	5.0	4.8	4.5	4.3	4.2	3.9	
3	7.4	7.1	6.8	6.5	6.2	6.0	5.6	5.2	4.9	4.6	4.4	4.2	4.0	3.8	3.5	
4	7.3	7.0	6.6	6.3	6.1	5.8	5.4	5.0	4.7	4.4	4.1	3.9	3.7	3.5	3.3	40
5	7.3	6.9	6.5	6.2	5.9	5.6	5.2	4.8	4.4	4.2	3.9	3.7	3.5	-	-	
10	7.1	6.6	6.1	5.7	5.4	5.1	4.6	4.1	-	-	-	-	-	-	-	
15	7.0	6.4	5.9	5.4	5.0	4.7	-	-	-	-	-	-	-	-	-	
30	6.7	5.9	5.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	7.5	7.2	7.0	6.8	6.6	6.4	6.1	5.8	5.5	5.3	5.0	4.8	4.6	4.4	4.2	
2	7.4	7.1	6.8	6.5	6.2	6.0	5.6	5.2	4.9	4.6	4.4	4.2	4.0	3.8	3.5	
3	7.3	6.9	6.6	6.3	6.0	5.7	5.3	4.9	4.5	4.3	4.0	3.8	3.6	3.4	3.1	
4	7.2	6.8	6.4	6.1	5.8	5.5	5.0	4.6	4.3	4.0	3.7	3.5	3.3	3.1	2.9	60
5	7.2	6.7	6.3	5.9	5.6	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1	-	-	
10	7.0	6.4	5.9	5.4	5.0	4.7	4.2	3.7	-	-	-	-	-	-	-	
15	6.8	6.1	5.6	5.1	4.7	4.3	-	-	-	-	-	-	-	-	-	
30	6.5	5.6	5.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	7.4	7.2	6.9	6.7	6.5	6.3	5.9	5.6	5.3	5.0	4.8	4.5	4.3	4.2	3.9	
2	7.3	7.0	6.6	6.3	6.1	5.8	5.4	5.0	4.7	4.4	4.1	3.9	3.7	3.5	3.3	
3	7.2	6.8	6.4	6.1	5.8	5.5	5.0	4.6	4.3	4.0	3.7	3.5	3.3	3.1	2.9	
4	7.2	6.7	6.3	5.9	5.6	5.3	4.8	4.3	4.0	3.7	3.4	3.2	3.0	2.8	2.6	80
5	7.1	6.6	6.1	5.7	5.4	5.1	4.6	4.1	3.8	3.5	3.2	3.0	2.8	-	-	
10	6.9	6.2	5.6	5.2	4.8	4.4	3.9	3.5	-	-	-	-	-	-	-	
15	6.7	5.9	5.3	4.8	4.4	4.1	-	-	-	-	-	-	-	-	-	
30	6.4	5.4	4.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	7.4	7.1	6.8	6.6	6.4	6.1	5.7	5.4	5.1	4.8	4.6	4.3	4.1	3.9	3.7	
2	7.3	6.9	6.5	6.2	5.9	5.6	5.2	4.8	4.4	4.2	3.9	3.7	3.5	3.3	3.0	
3	7.2	6.7	6.3	5.9	5.6	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1	2.9	2.7	
4	7.1	6.6	6.1	5.7	5.4	5.1	4.6	4.1	3.8	3.5	3.2	3.0	2.8	2.6	2.4	100
5	7.0	6.5	6.0	5.6	5.2	4.9	4.3	3.9	3.6	3.3	3.0	2.8	2.6	-	-	
10	6.8	6.1	5.5	5.0	4.6	4.2	3.7	3.3	-	-	-	-	-	-	-	
15	6.6	5.8	5.1	4.6	4.2	3.8	-	-	-	-	-	-	-	-	-	
30	6.2	5.2	4.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	7.3	7.0	6.7	6.4	6.1	5.9	5.4	5.0	4.7	4.4	4.2	3.9	3.7	3.6	3.3	
2	7.2	6.7	6.3	5.9	5.6	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1	2.9	2.7	
3	7.1	6.5	6.1	5.6	5.3	5.0	4.4	4.0	3.7	3.4	3.1	2.9	2.7	2.5	2.3	
4	7.0	6.4	5.9	5.4	5.0	4.7	4.2	3.7	3.4	3.1	2.9	2.6	2.5	2.3	2.1	150
5	6.9	6.2	5.7	5.2	4.8	4.5	4.0	3.5	3.2	2.9	2.7	2.5	2.3	-	-	
10	6.6	5.8	5.1	4.6	4.2	3.8	3.3	2.9	-	-	-	-	-	-	-	
15	6.4	5.5	4.8	4.2	3.8	3.5	-	-	-	-	-	-	-	-	-	
30	6.0	4.9	4.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	7.2	6.7	6.3	5.9	5.6	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1	2.9	2.7	
2	7.0	6.4	5.9	5.4	5.0	4.7	4.2	3.7	3.4	3.1	2.9	2.6	2.5	2.3	2.1	
3	6.8	6.1	5.6	5.1	4.7	4.3	3.8	3.4	3.0	2.7	2.5	2.3	2.1	2.0	1.8	
4	6.7	5.9	5.3	4.8	4.4	4.1	3.5	3.1	2.7	2.5	2.3	2.1	1.9	1.8	1.6	300
5	6.6	5.8	5.1	4.6	4.2	3.8	3.3	2.9	2.6	2.3	2.1	1.9	1.8	-	-	
10	6.2	5.2	4.5	4.0	3.5	3.2	2.7	2.3	-	-	-	-	-	-	-	
15	6.0	4.9	4.1	3.6	3.1	2.8	-	-	-	-	-	-	-	-	-	
30	5.5	4.2	3.5	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives

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Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec
Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec)
Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)

z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	35.4	34.3	33.6	33.1	32.6	32.2	31.5	31.0	30.5	30.0	29.6	29.3	28.9	28.2	27.4	
2	35.4	34.3	33.6	33.1	32.6	32.2	31.5	30.8	29.8	28.9	28.1	27.2	26.5	25.8	24.7	
3	35.4	34.3	33.6	33.1	32.6	32.2	30.9	29.7	28.6	27.6	26.6	25.8	24.9	24.1	23.1	
4	35.4	34.3	33.6	33.1	32.4	31.6	30.2	28.9	27.7	26.6	25.6	24.6	23.7	22.9	21.8	5
5	35.4	34.3	33.6	32.8	31.9	31.1	29.5	28.2	26.9	25.7	24.7	23.7	22.8	-	-	
10	35.3	33.9	32.6	31.4	30.3	29.2	27.3	25.7	-	-	-	-	-	-	-	
15	35.0	33.3	31.8	30.4	29.1	27.9	-	-	-	-	-	-	-	-	-	
30	34.3	32.1	30.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	35.4	34.3	33.6	33.1	32.6	32.2	31.5	30.8	29.8	28.9	28.1	27.2	26.5	25.8	24.7	
2	35.4	34.3	33.6	33.1	32.4	31.6	30.2	28.9	27.7	26.6	25.5	24.6	23.7	22.9	21.8	
3	35.4	34.3	33.4	32.4	31.5	30.6	29.0	27.5	26.2	25.0	23.9	22.9	22.0	21.1	20.0	
4	35.4	34.2	33.0	31.8	30.8	29.8	28.1	26.5	25.1	23.8	22.7	21.6	20.7	19.8	18.6	10
5	35.3	33.9	32.6	31.3	30.2	29.2	27.3	25.6	24.2	22.9	21.7	20.6	19.7	-	-	
10	34.7	32.8	31.1	29.5	28.2	26.9	24.7	22.8	-	-	-	-	-	-	-	
15	34.2	32.0	30.0	28.3	26.7	25.4	-	-	-	-	-	-	-	-	-	
30	33.3	30.4	27.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	35.4	34.3	33.6	33.1	32.3	31.6	30.2	28.9	27.7	26.6	25.5	24.6	23.7	22.9	21.8	
2	35.4	34.1	33.0	31.8	30.8	29.8	28.1	26.5	25.1	23.8	22.7	21.6	20.7	19.8	18.6	
3	35.1	33.6	32.2	30.9	29.7	28.6	26.6	24.9	23.4	22.1	20.9	19.8	18.8	17.9	16.8	
4	34.9	33.2	31.6	30.2	28.9	27.7	25.5	23.7	22.1	20.8	19.6	18.5	17.5	16.6	15.5	20
5	34.7	32.8	31.1	29.5	28.1	26.9	24.6	22.8	21.2	19.8	18.5	17.4	16.5	-	-	
10	33.9	31.3	29.2	27.3	25.6	24.2	21.7	19.7	-	-	-	-	-	-	-	
15	33.3	30.3	27.9	25.8	24.0	22.4	-	-	-	-	-	-	-	-	-	
30	32.0	28.3	25.4	-	-	-	-	-	-	-	-	-	-	-	-	
1	35.4	34.1	33.0	31.8	30.8	29.8	28.1	26.5	25.1	23.2	20.3	18.0	16.2	14.7	13.0	
2	34.9	33.2	31.6	30.2	28.9	27.7	25.5	23.7	22.1	20.8	18.9	16.8	15.1	13.8	12.1	
3	34.5	32.4	30.6	29.0	27.5	26.2	23.9	22.0	20.3	18.9	17.7	16.4	14.8	13.4	11.8	
4	34.1	31.8	29.8	28.1	26.5	25.1	22.7	20.7	19.0	17.6	16.4	15.3	14.4	13.3	11.7	40
5	33.9	31.3	29.2	27.3	25.6	24.2	21.7	19.7	18.0	16.6	15.4	14.3	13.4	-	-	
10	32.8	29.5	26.9	24.6	22.8	21.2	18.5	16.5	-	-	-	-	-	-	-	
15	32.0	28.3	25.3	22.9	21.0	19.3	-	-	-	-	-	-	-	-	-	
30	30.3	25.8	22.4	-	-	-	-	-	-	-	-	-	-	-	-	
1	35.1	33.6	32.2	30.9	29.7	28.6	26.6	23.1	19.2	16.5	14.4	12.8	11.5	10.5	9.2	
2	34.5	32.4	30.6	29.0	27.5	26.2	23.9	20.9	17.4	14.9	13.1	11.6	10.5	9.5	8.4	
3	34.0	31.6	29.5	27.7	26.0	24.6	22.1	20.1	16.8	14.4	12.6	11.2	10.1	9.2	8.1	
4	33.6	30.9	28.6	26.6	24.9	23.4	20.9	18.8	16.5	14.2	12.4	11.0	9.9	9.0	7.9	60
5	33.3	30.3	27.9	25.8	24.0	22.4	19.8	17.8	16.1	14.0	12.2	10.9	9.8	-	-	
10	32.0	28.3	25.3	22.9	21.0	19.3	16.7	14.7	-	-	-	-	-	-	-	
15	31.1	26.9	23.7	21.2	19.1	17.4	-	-	-	-	-	-	-	-	-	
30	29.2	24.2	20.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	34.9	33.2	31.6	30.2	28.8	27.7	23.0	18.4	15.3	13.1	11.5	10.2	9.2	8.4	7.4	
2	34.1	31.8	29.8	28.1	26.5	25.1	20.3	16.2	13.5	11.6	10.1	9.0	8.1	7.4	6.5	
3	33.6	30.9	28.6	26.6	24.9	23.4	19.4	15.5	12.9	11.1	9.7	8.6	7.7	7.0	6.2	
4	33.2	30.2	27.7	25.5	23.7	22.1	18.9	15.1	12.6	10.8	9.5	8.4	7.6	6.9	6.1	80
5	32.8	29.5	26.9	24.6	22.8	21.1	18.5	14.9	12.4	10.7	9.3	8.3	7.5	-	-	
10	31.3	27.3	24.2	21.7	19.7	18.0	15.4	13.4	-	-	-	-	-	-	-	
15	30.3	25.8	22.4	19.8	17.8	16.1	-	-	-	-	-	-	-	-	-	
30	28.3	22.9	19.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	34.7	32.8	31.1	29.5	28.1	26.0	19.5	15.6	13.0	11.1	9.7	8.7	7.8	7.1	6.2	
2	33.9	31.3	29.2	27.3	25.6	22.4	16.8	13.4	11.2	9.6	8.4	7.5	6.7	6.1	5.4	
3	33.3	30.3	27.9	25.8	24.0	21.1	15.9	12.7	10.6	9.1	7.9	7.0	6.3	5.8	5.1	
4	32.8	29.5	26.9	24.6	22.8	20.5	15.4	12.3	10.3	8.8	7.7	6.8	6.2	5.6	4.9	100
5	32.3	28.9	26.0	23.7	21.8	20.1	15.1	12.1	10.1	8.6	7.6	6.7	6.1	-	-	
10	30.8	26.5	23.2	20.7	18.6	17.0	14.4	11.7	-	-	-	-	-	-	-	
15	29.7	24.9	21.4	18.8	16.8	15.1	-	-	-	-	-	-	-	-	-	
30	27.5	22.0	18.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	34.2	32.0	30.0	28.3	23.7	19.7	14.8	11.8	9.9	8.5	7.4	6.6	5.9	5.4	4.7	
2	33.3	30.3	27.9	24.2	19.3	16.1	12.1	9.7	8.1	6.9	6.0	5.4	4.8	4.4	3.9	
3	32.6	29.2	26.4	22.4	17.9	14.9	11.2	8.9	7.5	6.4	5.6	5.0	4.5	4.1	3.6	
4	32.0	28.3	25.3	21.4	17.2	14.3	10.7	8.6	7.1	6.1	5.4	4.8	4.3	3.9	3.4	150
5	31.5	27.5	24.4	20.9	16.7	13.9	10.5	8.4	7.0	6.0	5.2	4.6	4.2	-	-	
10	29.7	24.9	21.4	18.8	15.8	13.2	9.9	7.9	-	-	-	-	-	-	-	
15	28.5	23.2	19.6	17.0	14.9	13.0	-	-	-	-	-	-	-	-	-	
30	26.0	20.1	16.4	-	-	-	-	-	-	-	-	-	-	-	-	
1	33.3	30.3	27.0	20.3	16.2	13.5	10.1	8.1	6.8	5.8	5.1	4.5	4.1	3.7	3.2	
2	32.0	28.3	19.7	14.8	11.8	9.9	7.4	5.9	4.9	4.2	3.7	3.3	3.0	2.7	2.4	
3	31.1	26.0	17.3	13.0	10.4	8.7	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.4	2.1	
4	30.3	24.2	16.1	12.1	9.7	8.1	6.0	4.8	4.0	3.5	3.0	2.7	2.4	2.2	1.9	300
5	29.7	23.1	15.4	11.5	9.2	7.7	5.8	4.6	3.8	3.3	2.9	2.6	2.3	-	-	
10	27.5	20.9	13.9	10.5	8.4	7.0	5.2	4.2	-	-	-	-	-	-	-	
15	26.0	20.1	13.4	10.1	8.1	6.7	-	-	-	-	-	-	-	-	-	
30	23.2	17.0	13.0	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives

0.3 - 3 ~ - 10000 min^{-1}

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec
Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec)
Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)

z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	9.0	8.7	8.6	8.5	8.4	8.3	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.2	
2	9.0	8.7	8.6	8.5	8.4	8.3	8.1	8.0	7.7	7.5	7.3	7.2	7.0	6.8	6.6	
3	9.0	8.7	8.6	8.5	8.4	8.3	8.0	7.7	7.5	7.2	7.0	6.8	6.6	6.4	6.2	
4	9.0	8.7	8.6	8.5	8.3	8.1	7.8	7.5	7.3	7.0	6.8	6.5	6.3	6.1	5.9	5
5	9.0	8.7	8.6	8.4	8.2	8.0	7.7	7.4	7.1	6.8	6.5	6.3	6.1	-	-	
10	9.0	8.6	8.4	8.1	7.8	7.6	7.2	6.8	-	-	-	-	-	-	-	
15	8.9	8.5	8.2	7.9	7.6	7.3	-	-	-	-	-	-	-	-	-	
30	8.7	8.2	7.8	-	-	-	-	-	-	-	-	-	-	-	-	
1	9.0	8.7	8.6	8.5	8.4	8.3	8.1	8.0	7.7	7.5	7.3	7.2	7.0	6.8	6.6	
2	9.0	8.7	8.6	8.5	8.3	8.1	7.8	7.5	7.2	7.0	6.8	6.5	6.3	6.1	5.9	
3	9.0	8.7	8.5	8.3	8.1	7.9	7.6	7.2	6.9	6.6	6.4	6.1	5.9	5.7	5.4	
4	9.0	8.7	8.4	8.2	8.0	7.7	7.3	7.0	6.6	6.3	6.1	5.8	5.6	5.4	5.1	10
5	9.0	8.6	8.4	8.1	7.8	7.6	7.2	6.8	6.4	6.1	5.8	5.6	5.3	-	-	
10	8.8	8.4	8.0	7.7	7.4	7.1	6.5	6.1	-	-	-	-	-	-	-	
15	8.7	8.2	7.8	7.4	7.0	6.7	-	-	-	-	-	-	-	-	-	
30	8.5	7.9	7.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	9.0	8.7	8.6	8.5	8.3	8.1	7.8	7.5	7.2	7.0	6.8	6.5	6.3	6.1	5.9	
2	9.0	8.7	8.4	8.2	8.0	7.7	7.3	7.0	6.6	6.3	6.1	5.8	5.6	5.4	5.1	
3	8.9	8.6	8.3	8.0	7.7	7.5	7.0	6.6	6.2	5.9	5.6	5.4	5.1	4.9	4.6	
4	8.9	8.5	8.1	7.8	7.5	7.2	6.8	6.3	5.9	5.6	5.3	5.0	4.8	4.6	4.3	20
5	8.8	8.4	8.0	7.7	7.4	7.1	6.5	6.1	5.7	5.4	5.1	4.8	4.5	-	-	
10	8.6	8.1	7.6	7.2	6.8	6.4	5.8	5.3	-	-	-	-	-	-	-	
15	8.5	7.9	7.3	6.8	6.4	6.0	-	-	-	-	-	-	-	-	-	
30	8.2	7.4	6.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	9.0	8.7	8.4	8.2	8.0	7.7	7.3	7.0	6.6	6.3	6.1	5.8	5.6	5.4	5.1	
2	8.9	8.5	8.1	7.8	7.5	7.2	6.8	6.3	5.9	5.6	5.3	5.0	4.8	4.6	4.3	
3	8.8	8.3	7.9	7.6	7.2	6.9	6.4	5.9	5.5	5.1	4.8	4.6	4.3	4.1	3.8	
4	8.7	8.2	7.7	7.3	7.0	6.6	6.1	5.6	5.2	4.8	4.5	4.2	4.0	3.8	3.5	40
5	8.6	8.1	7.6	7.2	6.8	6.4	5.8	5.3	4.9	4.6	4.2	4.0	3.7	-	-	
10	8.4	7.7	7.1	6.5	6.1	5.7	5.1	4.5	-	-	-	-	-	-	-	
15	8.2	7.4	6.7	6.1	5.7	5.2	-	-	-	-	-	-	-	-	-	
30	7.9	6.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	8.9	8.6	8.3	8.0	7.7	7.5	7.0	6.6	6.2	5.9	5.6	5.4	5.1	4.9	4.6	
2	8.8	8.3	7.9	7.6	7.2	6.9	6.4	5.9	5.5	5.1	4.8	4.6	4.3	4.1	3.8	
3	8.7	8.1	7.7	7.2	6.9	6.5	5.9	5.5	5.0	4.7	4.4	4.1	3.9	3.6	3.4	
4	8.6	8.0	7.5	7.0	6.6	6.2	5.6	5.1	4.7	4.3	4.0	3.8	3.5	3.3	3.1	60
5	8.5	7.9	7.3	6.8	6.4	6.0	5.4	4.9	4.4	4.1	3.8	3.5	3.3	-	-	
10	8.2	7.4	6.7	6.1	5.7	5.2	4.6	4.1	-	-	-	-	-	-	-	
15	8.0	7.1	6.3	5.7	5.2	4.8	-	-	-	-	-	-	-	-	-	
30	7.6	6.4	5.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	8.9	8.5	8.1	7.8	7.5	7.2	6.8	6.3	5.9	5.6	5.3	5.0	4.8	4.6	4.3	
2	8.7	8.2	7.7	7.3	7.0	6.6	6.1	5.6	5.2	4.8	4.5	4.2	4.0	3.8	3.5	
3	8.6	8.0	7.5	7.0	6.6	6.2	5.6	5.1	4.7	4.3	4.0	3.8	3.5	3.3	3.1	
4	8.5	7.8	7.2	6.8	6.3	5.9	5.3	4.8	4.4	4.0	3.7	3.5	3.2	3.0	2.8	80
5	8.4	7.7	7.1	6.5	6.1	5.7	5.1	4.5	4.1	3.8	3.5	3.2	3.0	-	-	
10	8.1	7.2	6.4	5.8	5.3	4.9	4.2	3.7	-	-	-	-	-	-	-	
15	7.9	6.8	6.0	5.4	4.9	4.4	-	-	-	-	-	-	-	-	-	
30	7.4	6.1	5.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	8.8	8.4	8.0	7.7	7.4	7.1	6.5	6.1	5.7	5.4	5.1	4.8	4.5	4.3	4.0	
2	8.6	8.1	7.6	7.2	6.8	6.4	5.8	5.3	4.9	4.6	4.2	4.0	3.7	3.5	3.3	
3	8.5	7.9	7.3	6.8	6.4	6.0	5.4	4.9	4.4	4.1	3.8	3.5	3.3	3.1	2.8	
4	8.4	7.7	7.1	6.5	6.1	5.7	5.1	4.5	4.1	3.8	3.5	3.2	3.0	2.8	2.6	100
5	8.3	7.5	6.9	6.3	5.9	5.5	4.8	4.3	3.9	3.5	3.2	3.0	2.8	-	-	
10	8.0	7.0	6.2	5.6	5.1	4.7	4.0	3.5	-	-	-	-	-	-	-	
15	7.7	6.6	5.8	5.1	4.6	4.2	-	-	-	-	-	-	-	-	-	
30	7.2	5.9	5.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	8.7	8.2	7.8	7.4	7.0	6.7	6.1	5.7	5.2	4.9	4.6	4.3	4.1	3.9	3.6	
2	8.5	7.9	7.3	6.8	6.4	6.0	5.4	4.9	4.4	4.1	3.8	3.5	3.3	3.1	2.8	
3	8.4	7.6	7.0	6.4	6.0	5.6	4.9	4.4	4.0	3.6	3.3	3.1	2.9	2.7	2.5	
4	8.2	7.4	6.7	6.1	5.7	5.2	4.6	4.1	3.7	3.3	3.0	2.8	2.6	2.4	2.2	150
5	8.1	7.2	6.5	5.9	5.4	5.0	4.3	3.8	3.4	3.1	2.8	2.6	2.4	-	-	
10	7.7	6.6	5.8	5.1	4.6	4.2	3.5	3.1	-	-	-	-	-	-	-	
15	7.4	6.2	5.3	4.7	4.1	3.7	-	-	-	-	-	-	-	-	-	
30	6.9	5.5	4.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	8.5	7.9	7.3	6.8	6.4	6.0	5.4	4.9	4.4	4.1	3.8	3.5	3.3	3.1	2.8	
2	8.2	7.4	6.7	6.1	5.7	5.2	4.6	4.1	3.7	3.3	3.0	2.8	2.6	2.4	2.2	
3	8.0	7.1	6.3	5.7	5.2	4.8	4.1	3.6	3.2	2.9	2.6	2.4	2.2	2.1	1.9	
4	7.9	6.8	6.0	5.4	4.9	4.4	3.8	3.3	2.9	2.6	2.4	2.2	2.0	1.9	1.7	300
5	7.7	6.6	5.8	5.1	4.6	4.2	3.5	3.1	2.7	2.4	2.2	2.0	1.8	-	-	
10	7.2	5.9	5.0	4.3	3.8	3.4	2.8	2.4	-	-	-	-	-	-	-	
15	6.9	5.5	4.5	3.9	3.4	3.0	-	-	-	-	-	-	-	-	-	
30	6.2	4.7	3.7	-	-	-	-	-	-	-	-	-	-	-	-	

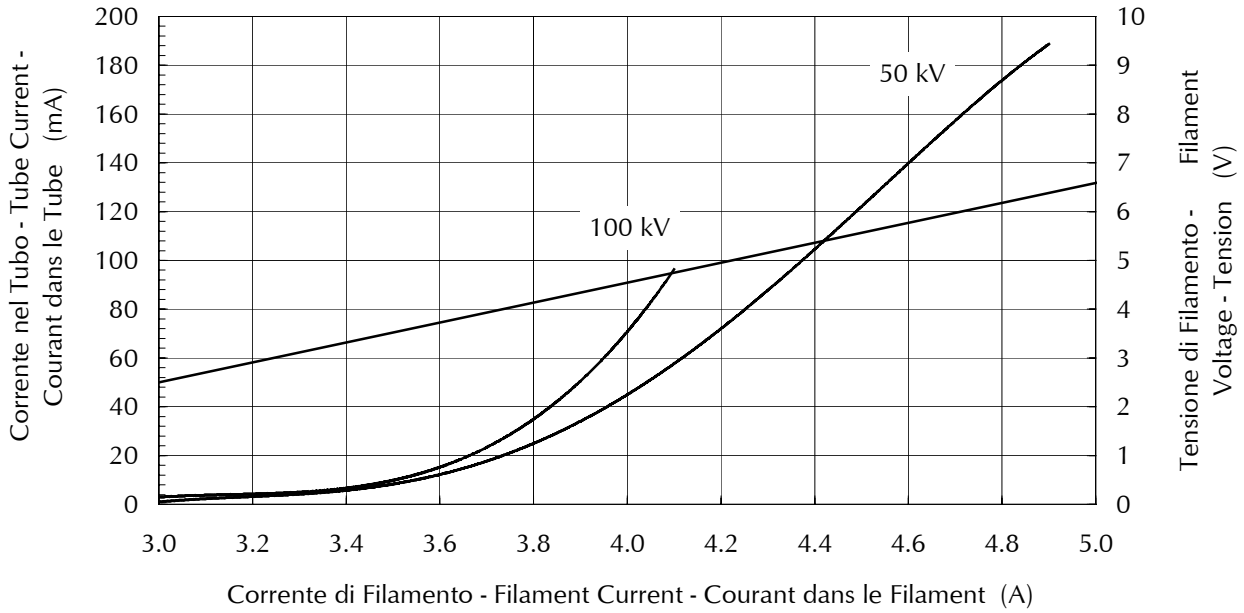
Abaco per carichi in serie - Serial load rating - Abaque de charges successives

■ 0.6 - 3 ~ - 10000 min^{-1}

Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec
Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec)
Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. par sec), temps d'exposition (sec)

z	0.010	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.140	0.160	0.180	0.200	0.220	0.250	n
1	42.2	40.6	39.6	38.9	38.2	37.7	36.8	36.0	35.3	34.8	34.2	33.7	33.2	32.4	31.2	
2	42.2	40.6	39.6	38.9	38.2	37.7	36.8	35.8	34.5	33.3	32.1	31.1	30.1	29.2	27.9	
3	42.2	40.6	39.6	38.9	38.2	37.7	35.9	34.3	32.9	31.5	30.3	29.1	28.1	27.1	25.7	
4	42.2	40.6	39.6	38.9	37.9	36.9	34.9	33.2	31.6	30.2	28.9	27.7	26.6	25.6	24.2	5
5	42.2	40.6	39.6	38.5	37.3	36.2	34.1	32.3	30.6	29.1	27.8	26.5	25.4	-	-	
10	42.0	40.0	38.2	36.6	35.1	33.7	31.2	29.1	-	-	-	-	-	-	-	
15	41.5	39.2	37.1	35.2	33.5	32.0	-	-	-	-	-	-	-	-	-	
30	40.6	37.5	34.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	42.2	40.6	39.6	38.9	38.2	37.7	36.8	35.8	34.5	33.3	32.1	31.1	30.1	29.2	27.9	
2	42.2	40.6	39.6	38.9	37.9	36.9	34.9	33.2	31.6	30.2	28.9	27.7	26.6	25.6	24.2	
3	42.2	40.6	39.4	38.0	36.7	35.5	33.4	31.4	29.7	28.2	26.8	25.5	24.4	23.4	21.9	
4	42.2	40.4	38.7	37.2	35.8	34.5	32.1	30.1	28.3	26.7	25.3	24.0	22.8	21.8	20.4	10
5	42.0	40.0	38.2	36.5	35.0	33.6	31.1	29.0	27.1	25.5	24.0	22.8	21.6	-	-	
10	41.1	38.5	36.2	34.1	32.3	30.6	27.8	25.4	-	-	-	-	-	-	-	
15	40.5	37.4	34.8	32.5	30.4	28.7	-	-	-	-	-	-	-	-	-	
30	39.2	35.2	32.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	42.2	40.6	39.6	38.9	37.9	36.9	34.9	33.2	31.6	30.2	28.9	27.7	26.6	25.6	24.2	
2	42.2	40.4	38.7	37.2	35.8	34.5	32.1	30.1	28.3	26.7	25.3	24.0	22.8	21.8	20.3	
3	41.8	39.6	37.7	35.9	34.3	32.9	30.3	28.1	26.2	24.5	23.0	21.7	20.6	19.5	18.2	
4	41.4	39.0	36.9	34.9	33.2	31.6	28.9	26.6	24.6	22.9	21.4	20.2	19.0	18.0	16.6	20
5	41.1	38.5	36.1	34.1	32.2	30.6	27.7	25.4	23.4	21.7	20.2	18.9	17.8	-	-	
10	40.0	36.5	33.6	31.1	29.0	27.1	24.0	21.6	-	-	-	-	-	-	-	
15	39.2	35.2	31.9	29.2	26.9	25.0	-	-	-	-	-	-	-	-	-	
30	37.4	32.5	28.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	42.2	40.4	38.7	37.2	35.8	34.5	32.1	30.1	27.0	23.2	20.3	18.0	16.2	14.7	13.0	
2	41.4	39.0	36.9	34.9	33.2	31.6	28.9	26.6	24.6	21.6	18.9	16.8	15.1	13.8	12.1	
3	40.9	38.0	35.5	33.4	31.4	29.7	26.8	24.4	22.4	20.7	18.5	16.4	14.8	13.4	11.8	
4	40.4	37.2	34.5	32.1	30.1	28.3	25.3	22.8	20.8	19.1	17.7	16.2	14.6	13.3	11.7	40
5	40.0	36.5	33.6	31.1	29.0	27.1	24.0	21.6	19.6	17.9	16.5	15.3	14.3	-	-	
10	38.5	34.1	30.6	27.7	25.4	23.4	20.2	17.8	-	-	-	-	-	-	-	
15	37.4	32.4	28.6	25.6	23.2	21.2	-	-	-	-	-	-	-	-	-	
30	35.2	29.2	25.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	41.8	39.6	37.7	35.9	34.3	32.9	28.8	23.1	19.2	16.5	14.4	12.8	11.5	10.5	9.2	
2	40.9	38.0	35.5	33.4	31.4	29.7	26.1	20.9	17.4	14.9	13.1	11.6	10.5	9.5	8.4	
3	40.2	36.9	34.0	31.6	29.5	27.7	24.6	20.2	16.8	14.4	12.6	11.2	10.1	9.2	8.1	
4	39.6	35.9	32.9	30.3	28.1	26.2	23.0	19.8	16.5	14.2	12.4	11.0	9.9	9.0	7.9	60
5	39.2	35.2	31.9	29.2	26.9	25.0	21.8	19.4	16.3	14.0	12.2	10.9	9.8	-	-	
10	37.4	32.4	28.6	25.6	23.2	21.2	18.0	15.7	-	-	-	-	-	-	-	
15	36.1	30.6	26.5	23.4	20.9	18.9	-	-	-	-	-	-	-	-	-	
30	33.6	27.1	22.8	-	-	-	-	-	-	-	-	-	-	-	-	
1	41.4	39.0	36.9	34.9	33.2	30.7	23.0	18.4	15.3	13.1	11.5	10.2	9.2	8.4	7.4	
2	40.4	37.2	34.5	32.1	30.1	27.0	20.3	16.2	13.5	11.6	10.1	9.0	8.1	7.4	6.5	
3	39.6	35.9	32.9	30.3	28.1	25.8	19.4	15.5	12.9	11.1	9.7	8.6	7.7	7.0	6.2	
4	39.0	34.9	31.6	28.9	26.6	24.6	18.9	15.1	12.6	10.8	9.5	8.4	7.6	6.9	6.1	80
5	38.5	34.1	30.6	27.7	25.4	23.4	18.6	14.9	12.4	10.7	9.3	8.3	7.5	-	-	
10	36.5	31.1	27.1	24.0	21.6	19.6	16.5	14.3	-	-	-	-	-	-	-	
15	35.2	29.2	25.0	21.8	19.4	17.4	-	-	-	-	-	-	-	-	-	
30	32.4	25.6	21.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	41.1	38.5	36.1	34.1	31.2	26.0	19.5	15.6	13.0	11.1	9.7	8.7	7.8	7.1	6.2	
2	40.0	36.5	33.6	31.1	26.8	22.4	16.8	13.4	11.2	9.6	8.4	7.5	6.7	6.1	5.4	
3	39.2	35.2	31.9	29.2	25.4	21.1	15.9	12.7	10.6	9.1	7.9	7.0	6.3	5.8	5.1	
4	38.5	34.1	30.6	27.7	24.6	20.5	15.4	12.3	10.3	8.8	7.7	6.8	6.2	5.6	4.9	100
5	37.9	33.2	29.5	26.6	24.2	20.2	15.1	12.1	10.1	8.6	7.6	6.7	6.1	-	-	
10	35.8	30.1	25.9	22.8	20.3	18.4	14.6	11.7	-	-	-	-	-	-	-	
15	34.3	28.1	23.7	20.6	18.2	16.2	-	-	-	-	-	-	-	-	-	
30	31.4	24.4	19.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	40.5	37.4	34.7	29.6	23.7	19.7	14.8	11.8	9.9	8.5	7.4	6.6	5.9	5.4	4.7	
2	39.2	35.2	31.9	24.2	19.3	16.1	12.1	9.7	8.1	6.9	6.0	5.4	4.8	4.4	3.9	
3	38.2	33.6	29.8	22.4	17.9	14.9	11.2	8.9	7.5	6.4	5.6	5.0	4.5	4.1	3.6	
4	37.4	32.4	28.6	21.4	17.2	14.3	10.7	8.6	7.1	6.1	5.4	4.8	4.3	3.9	3.4	150
5	36.7	31.4	27.5	20.9	16.7	13.9	10.5	8.4	7.0	6.0	5.2	4.6	4.2	-	-	
10	34.3	28.1	23.7	19.8	15.8	13.2	9.9	7.9	-	-	-	-	-	-	-	
15	32.7	25.9	21.5	18.4	15.6	13.0	-	-	-	-	-	-	-	-	-	
30	29.5	22.2	17.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	39.2	35.2	27.0	20.3	16.2	13.5	10.1	8.1	6.8	5.8	5.1	4.5	4.1	3.7	3.2	
2	37.4	29.6	19.7	14.8	11.8	9.9	7.4	5.9	4.9	4.2	3.7	3.3	3.0	2.7	2.4	
3	36.1	26.0	17.3	13.0	10.4	8.7	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.4	2.1	
4	35.2	24.2	16.1	12.1	9.7	8.1	6.0	4.8	4.0	3.5	3.0	2.7	2.4	2.2	1.9	300
5	34.3	23.1	15.4	11.5	9.2	7.7	5.8	4.6	3.8	3.3	2.9	2.6	2.3	-	-	
10	31.4	20.9	13.9	10.5	8.4	7.0	5.2	4.2	-	-	-	-	-	-	-	
15	29.5	20.2	13.4	10.1	8.1	6.7	-	-	-	-	-	-	-	-	-	
30	25.9	18.4	13.0	-	-	-	-	-	-	-	-	-	-	-	-	

Caratteristica di emissione del catodo
Cathode emission characteristic
Caractéristique d'émission de la cathode
▣ 0.3 - 3 ~ - (± 0.2 A)



Caratteristica di emissione del catodo
Cathode emission characteristic
Caractéristique d'émission de la cathode
■ 0.6 - 3 ~ - (± 0.2 A)