

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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Dichiarazione di conformità

Questo prodotto soddisfa i requisiti essenziali della direttiva 93/42/CEE in accordo alle norme EN 60613 (IEC 613) e EN 60336 (IEC 336)





Declaration of conformity

This tube fulfils the essential requirements of the directive 93/42/EEC according to standard EN 60613 (IEC 613) and EN 60336 (IEC 336).

Confirmation de conformité

Ce tube remplit les exigences essentielles de la directive 93/42/CEE en accord avec les normes EN 60613 (IEC 613) et EN 60336 (IEC 336).

Caratteristiche - Specifications - Spécifications

Macchie focali Focal spot Foyer	 0.6  1.2	(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	 26 kW 40 kW  63 kW 100 kW	(IEC 613, EN 60613)
Diametro anodico Anode diameter Diamètre de l'anode	102 mm	
Materiale anodico Anode material Matériau de l'anode	RTMC	
Angolo anodico Anode angle Pente de l'anode	12.5 °	
Campo di radiazione Radiation field Champ de rayonnement	a 70 cm 30 cm a 100 cm 43 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	600 kJ 800 kHU	
Dissipazione termica continua Continuous heat dissipation Dissipation thermique continue	1000 W 80 000 HU/min	
Dissipazione termica massima Maximum heat dissipation Dissipation thermique maximale	1500 W 125 000 HU/min	
Alta tensione nominale Nominal X-ray tube voltage Haute tension nominale	150 kV	
Massima corrente di filamento Max. filament current Courant dans le filament max.	5.4 A	



RTC 700 HS 0.6/1.2

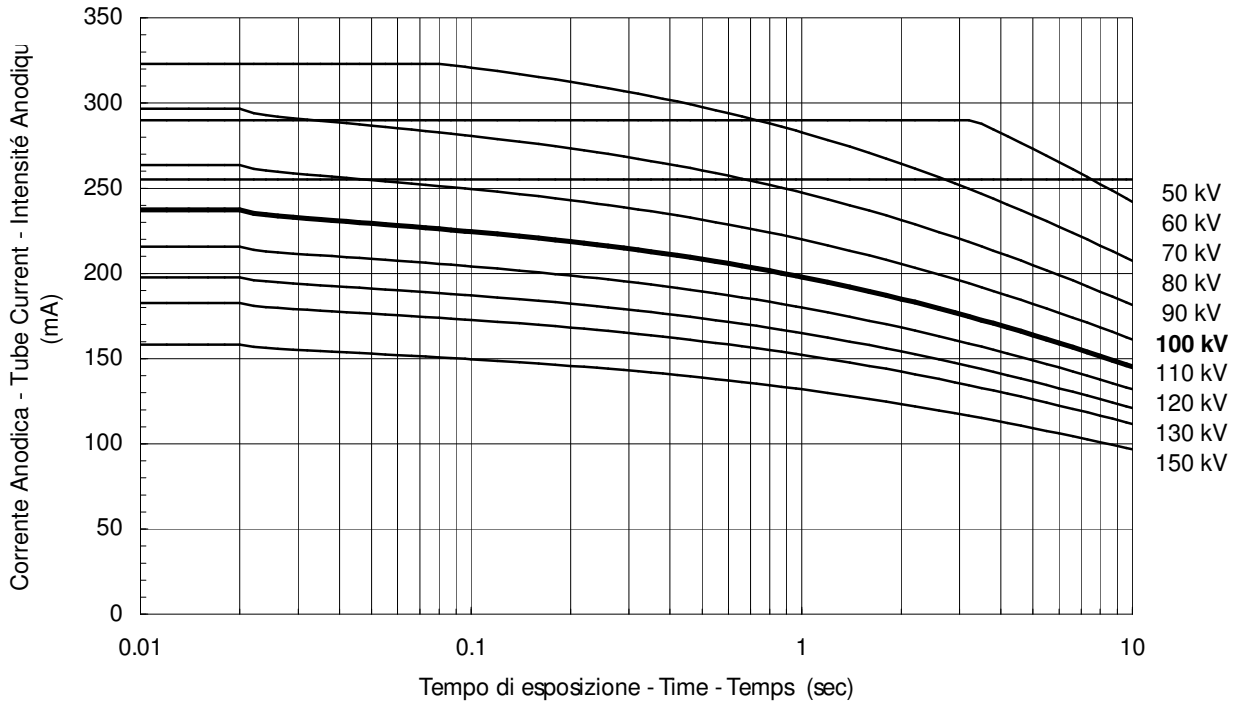
Documentazione Tubo
Tube Documentation
Documentation du Tube

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 calculées pour:

Potenza anodica di equilibrio termico		% della capacità termica anodica	
Equivalent anode input power	300 W =	% of maximum anode heat content	52%
Puissance anodique d'équilibre thermique		% de chaleur max. accumulée dans l'anode	

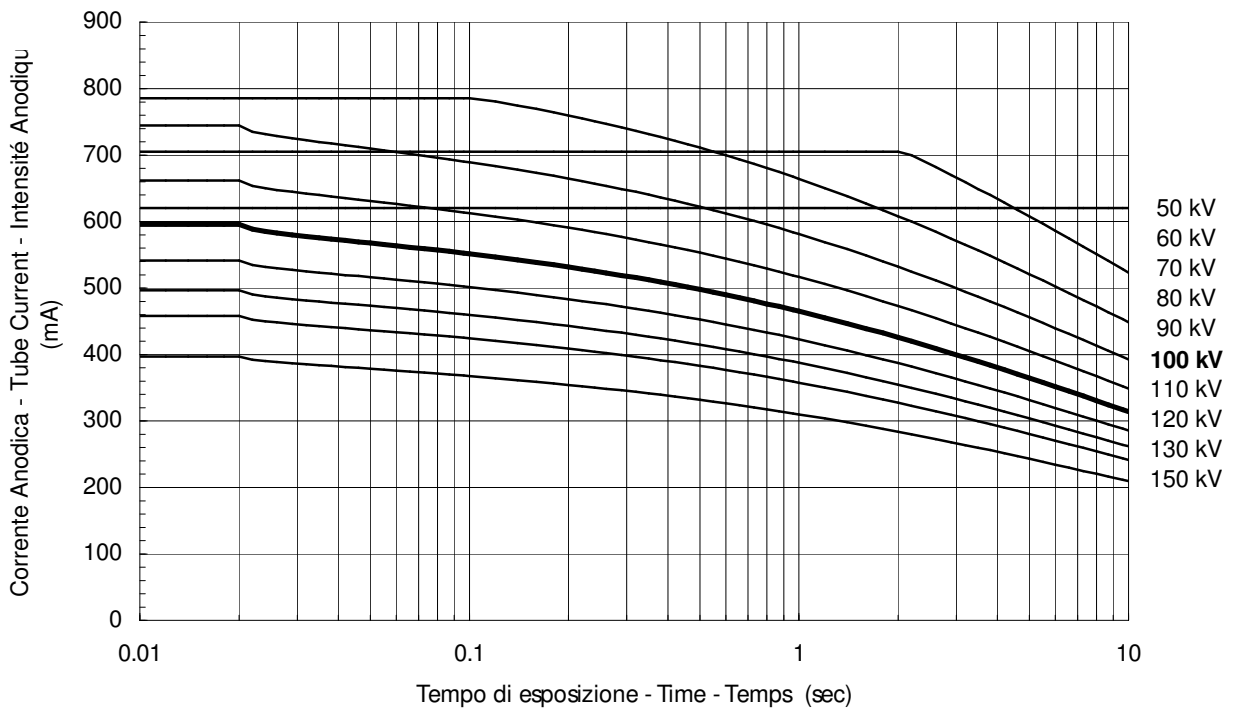
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.6 - 1[~] - 3000 min⁻¹



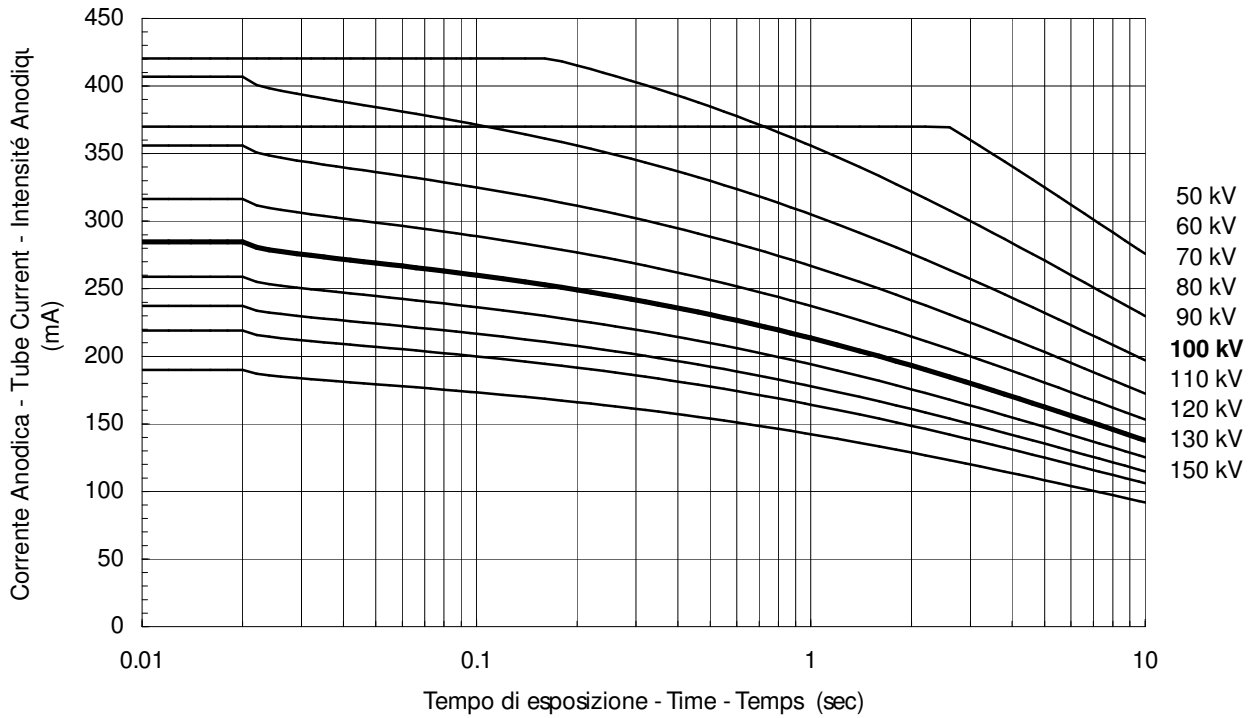
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

■ 1.2 - 1[~] - 3000 min⁻¹



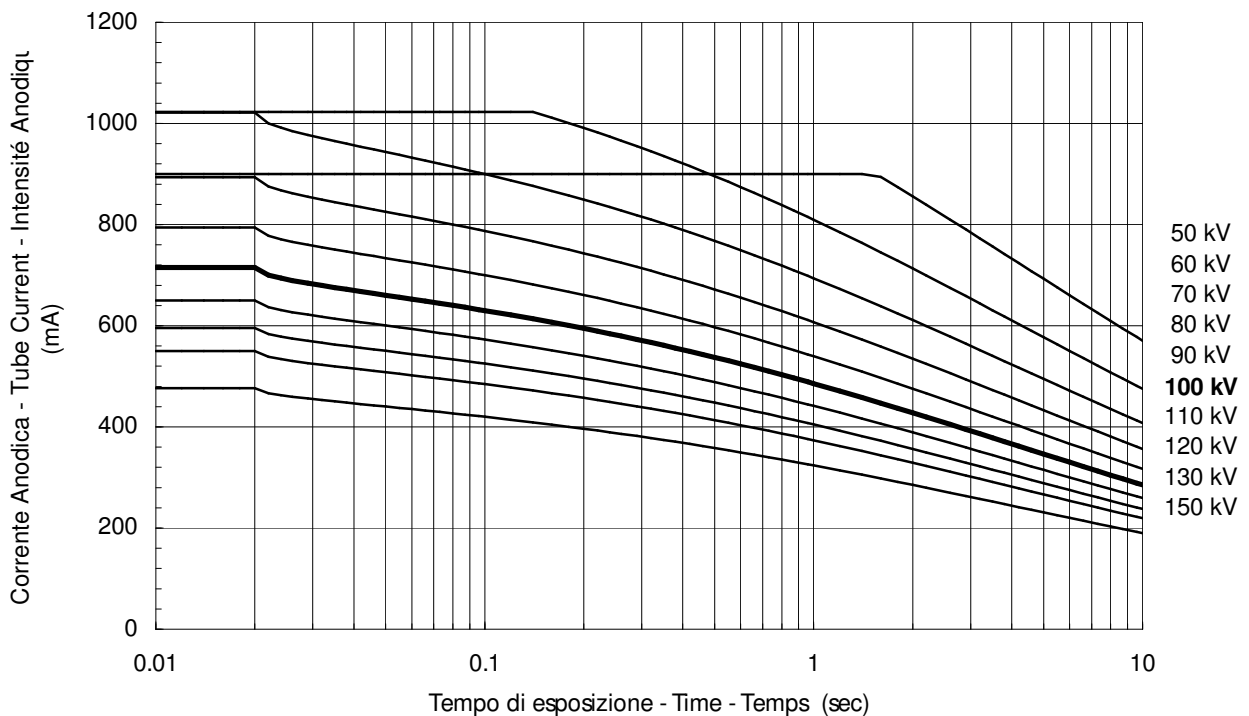
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.6 - 3 ~ - 3000 min⁻¹



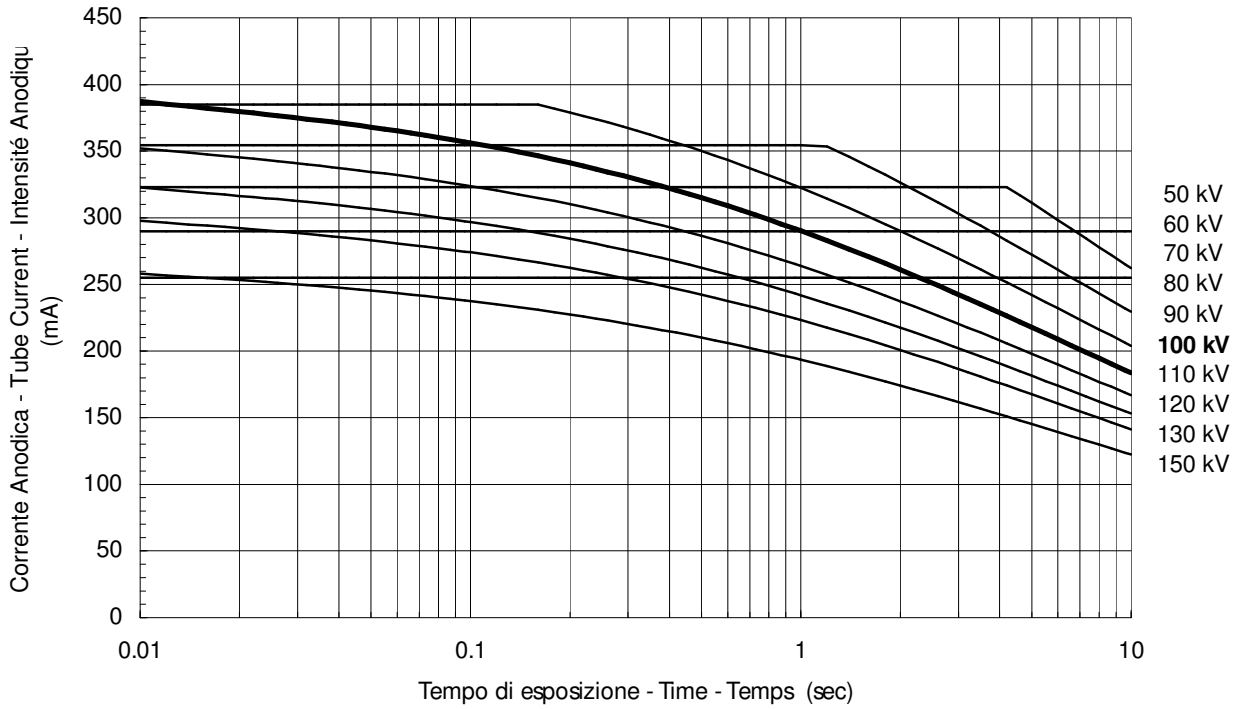
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

■ 1.2 - 3 ~ - 3000 min⁻¹



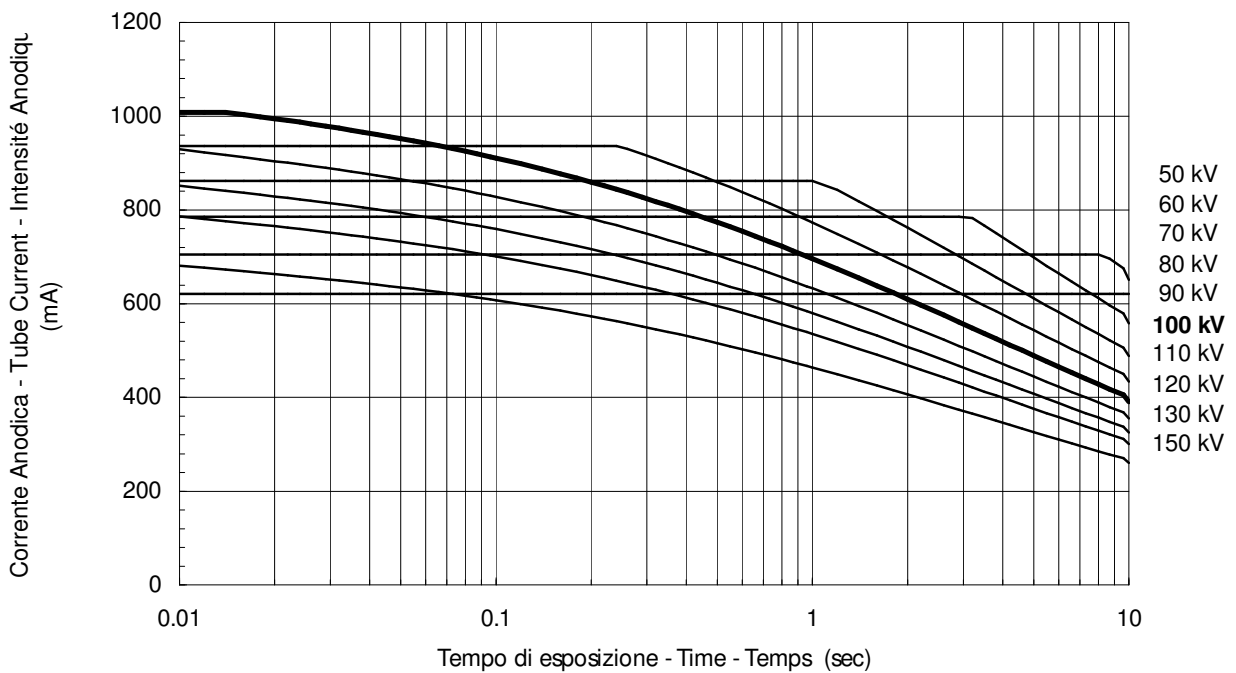
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.6 - 1 ~ - 10000 min⁻¹



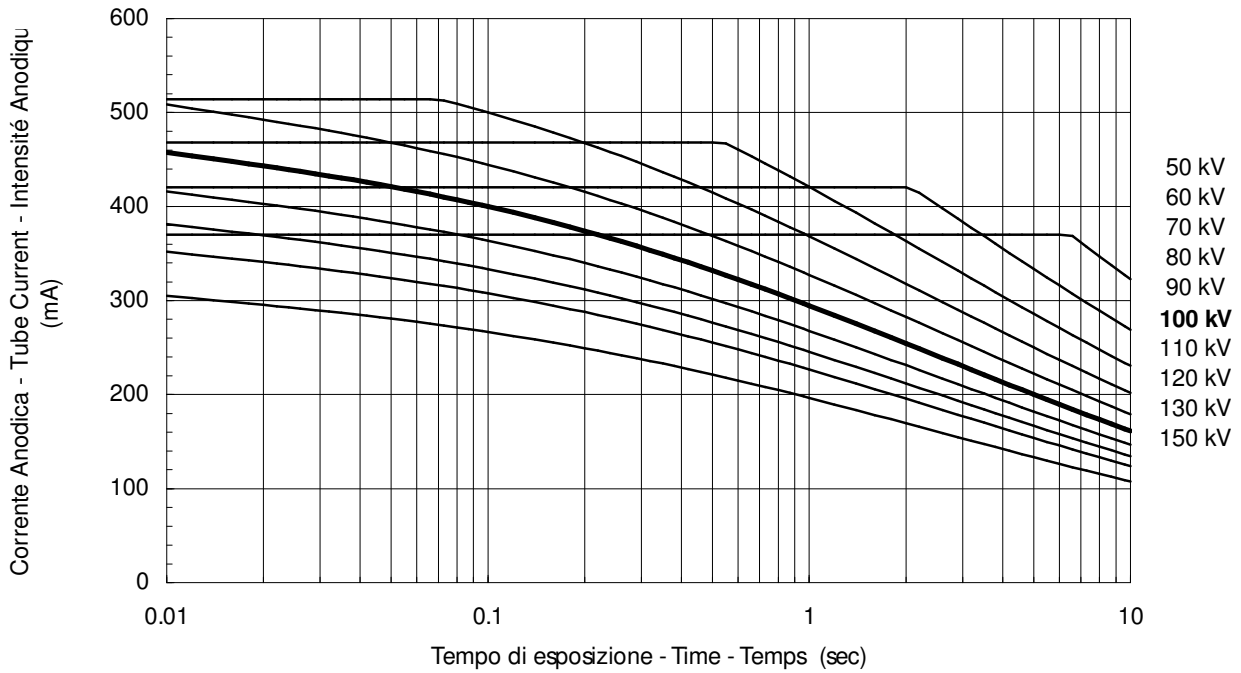
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

■ 1.2 - 1 ~ - 10000 min⁻¹



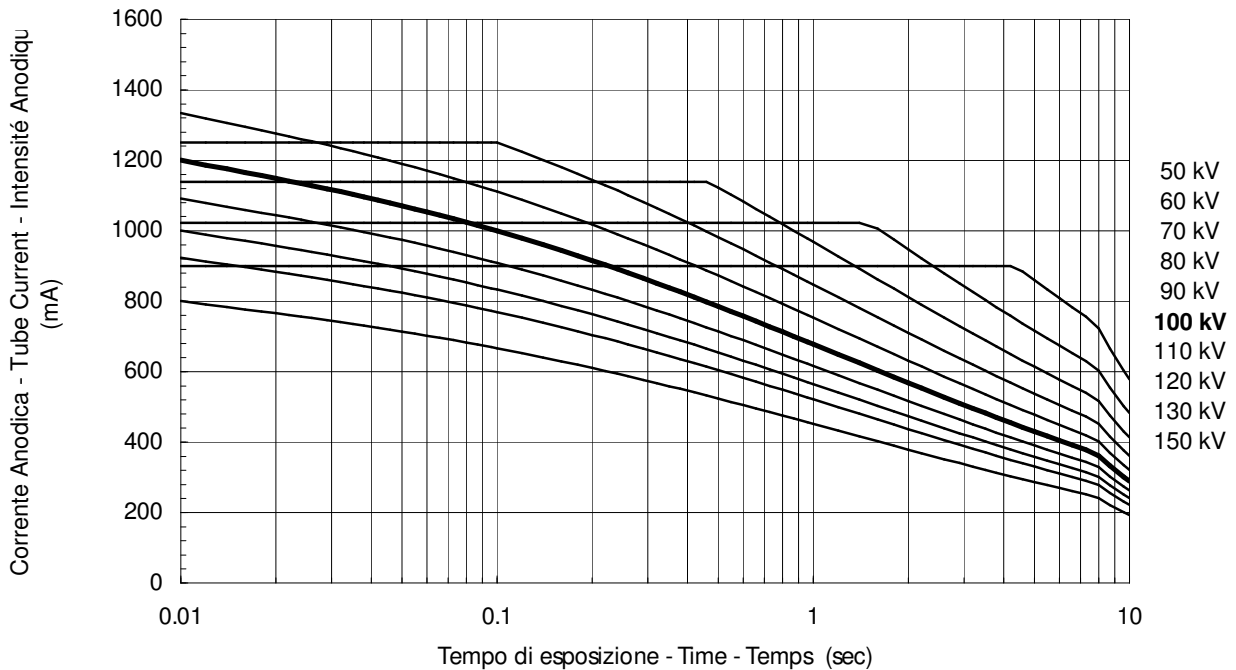
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.6 - 3 ~ - 10000 min⁻¹



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

■ 1.2 - 3 ~ - 10000 min⁻¹



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 série), 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	18.8	18.8	18.5	18.3	18.1	18.0	17.8	17.6	17.4	17.3	17.2	17.1	16.9	16.7	16.4	5
2	18.7	18.7	18.5	18.3	18.1	18.0	17.7	17.4	17.2	16.9	16.6	16.4	16.1	15.9	15.5	
3	18.6	18.6	18.4	18.2	18.0	17.8	17.5	17.1	16.8	16.5	16.2	15.9	15.6	15.3	14.9	
4	18.5	18.5	18.3	18.1	17.9	17.7	17.3	16.9	16.5	16.2	15.8	15.5	15.2	14.9	14.5	
5	18.5	18.5	18.2	18.0	17.8	17.5	17.1	16.7	16.3	15.9	15.5	15.2	14.9	-	-	
10	18.5	18.3	17.9	17.6	17.3	17.0	16.4	15.9	-	-	-	-	-	-	-	
15	18.5	18.1	17.7	17.3	17.0	16.6	-	-	-	-	-	-	-	-	-	
30	18.4	17.8	17.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.7	18.7	18.5	18.3	18.1	18.0	17.7	17.4	17.2	16.9	16.6	16.4	16.1	15.9	15.5	10
2	18.5	18.5	18.3	18.1	17.9	17.7	17.3	16.9	16.5	16.2	15.8	15.5	15.2	14.9	14.5	
3	18.5	18.4	18.2	17.9	17.6	17.4	16.9	16.5	16.0	15.6	15.2	14.9	14.5	14.2	13.7	
4	18.5	18.3	18.0	17.7	17.4	17.2	16.6	16.1	15.7	15.2	14.8	14.4	14.0	13.7	13.2	
5	18.5	18.3	17.9	17.6	17.3	17.0	16.4	15.9	15.3	14.9	14.4	14.0	13.6	-	-	
10	18.5	18.0	17.5	17.1	16.7	16.3	15.5	14.9	-	-	-	-	-	-	-	
15	18.4	17.8	17.2	16.7	16.2	15.8	-	-	-	-	-	-	-	-	-	
30	18.1	17.3	16.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.5	18.5	18.3	18.1	17.9	17.7	17.3	16.9	16.5	16.1	15.8	15.5	15.2	14.9	14.4	20
2	18.5	18.3	18.0	17.7	17.4	17.2	16.6	16.1	15.7	15.2	14.8	14.4	14.0	13.7	13.2	
3	18.5	18.2	17.8	17.5	17.1	16.8	16.2	15.6	15.1	14.6	14.1	13.6	13.2	12.8	12.3	
4	18.5	18.1	17.7	17.3	16.9	16.5	15.8	15.2	14.6	14.1	13.5	13.1	12.6	12.2	11.7	
5	18.5	18.0	17.5	17.1	16.7	16.3	15.5	14.8	14.2	13.6	13.1	12.6	12.2	-	-	
10	18.3	17.6	17.0	16.4	15.9	15.3	14.4	13.6	-	-	-	-	-	-	-	
15	18.1	17.3	16.6	15.9	15.3	14.7	-	-	-	-	-	-	-	-	-	
30	17.8	16.7	15.8	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.5	18.3	18.0	17.7	17.4	17.2	16.6	16.1	15.6	15.2	14.8	14.4	14.0	13.7	13.1	40
2	18.5	18.1	17.7	17.3	16.9	16.5	15.8	15.2	14.6	14.0	13.5	13.1	12.6	12.2	11.7	
3	18.4	17.9	17.4	16.9	16.5	16.0	15.2	14.5	13.9	13.3	12.7	12.2	11.8	11.3	10.7	
4	18.3	17.7	17.2	16.6	16.1	15.7	14.8	14.0	13.3	12.7	12.1	11.6	11.1	10.7	10.1	
5	18.3	17.6	17.0	16.4	15.8	15.3	14.4	13.6	12.9	12.2	11.6	11.1	10.6	-	-	
10	18.0	17.1	16.3	15.5	14.8	14.2	13.1	12.2	-	-	-	-	-	-	-	
15	17.8	16.7	15.7	14.9	14.1	13.5	-	-	-	-	-	-	-	-	-	
30	17.3	15.9	14.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.5	18.2	17.8	17.5	17.1	16.8	16.2	15.6	15.1	14.6	14.1	13.6	13.2	12.8	12.3	60
2	18.4	17.9	17.4	16.9	16.5	16.0	15.2	14.5	13.9	13.3	12.7	12.2	11.8	11.3	10.7	
3	18.3	17.7	17.1	16.5	16.0	15.5	14.6	13.8	13.1	12.4	11.8	11.3	10.8	10.4	9.8	
4	18.2	17.5	16.8	16.2	15.6	15.1	14.1	13.2	12.5	11.8	11.2	10.6	10.2	9.7	9.1	
5	18.1	17.3	16.6	15.9	15.3	14.7	13.7	12.8	12.0	11.3	10.7	10.1	9.6	-	-	
10	17.8	16.7	15.7	14.9	14.1	13.4	12.3	11.3	-	-	-	-	-	-	-	
15	17.5	16.3	15.2	14.2	13.4	12.6	-	-	-	-	-	-	-	-	-	
30	17.0	15.3	14.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.5	18.1	17.7	17.3	16.9	16.5	15.8	15.2	14.6	14.0	13.5	13.1	12.6	12.2	11.7	80
2	18.3	17.7	17.2	16.6	16.1	15.6	14.8	14.0	13.3	12.7	12.1	11.6	11.1	10.7	10.1	
3	18.2	17.5	16.8	16.2	15.6	15.1	14.1	13.2	12.5	11.8	11.2	10.6	10.2	9.7	9.1	
4	18.1	17.3	16.5	15.8	15.2	14.6	13.5	12.6	11.8	11.1	10.5	10.0	9.5	9.0	8.4	
5	18.0	17.1	16.2	15.5	14.8	14.2	13.1	12.2	11.3	10.6	10.0	9.4	8.9	-	-	
10	17.6	16.4	15.3	14.4	13.6	12.9	11.6	10.6	-	-	-	-	-	-	-	
15	17.3	15.9	14.7	13.7	12.8	12.0	-	-	-	-	-	-	-	-	-	
30	16.7	14.9	13.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.5	18.0	17.5	17.1	16.6	16.2	15.5	14.8	14.2	13.6	13.1	12.6	12.2	11.7	11.2	100
2	18.3	17.6	17.0	16.4	15.8	15.3	14.4	13.6	12.9	12.2	11.6	11.1	10.6	10.1	9.5	
3	18.1	17.3	16.6	15.9	15.3	14.7	13.7	12.8	12.0	11.3	10.7	10.1	9.6	9.2	8.6	
4	18.0	17.1	16.2	15.5	14.8	14.2	13.1	12.2	11.3	10.6	10.0	9.4	8.9	8.5	7.9	
5	17.9	16.9	16.0	15.2	14.4	13.8	12.6	11.7	10.8	10.1	9.5	8.9	8.4	-	-	
10	17.4	16.1	15.0	14.0	13.2	12.4	11.1	10.1	-	-	-	-	-	-	-	
15	17.1	15.6	14.3	13.2	12.3	11.5	-	-	-	-	-	-	-	-	-	
30	16.5	14.5	13.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.4	17.8	17.2	16.7	16.2	15.7	14.9	14.1	13.4	12.8	12.2	11.7	11.2	10.3	9.0	150
2	18.1	17.3	16.6	15.9	15.3	14.7	13.7	12.8	12.0	11.3	10.7	10.1	9.5	8.6	7.6	
3	17.9	17.0	16.1	15.3	14.6	14.0	12.9	11.9	11.1	10.4	9.7	9.2	8.7	8.1	7.1	
4	17.8	16.7	15.7	14.9	14.1	13.4	12.2	11.2	10.4	9.7	9.0	8.5	8.0	7.6	6.9	
5	17.6	16.5	15.4	14.5	13.7	13.0	11.8	10.7	9.9	9.1	8.5	8.0	7.5	-	-	
10	17.1	15.6	14.3	13.2	12.3	11.5	10.2	9.1	-	-	-	-	-	-	-	
15	16.8	15.0	13.6	12.4	11.4	10.6	-	-	-	-	-	-	-	-	-	
30	16.0	13.8	12.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	18.1	17.3	16.6	15.9	15.3	14.7	13.7	12.8	12.0	11.3	10.6	9.3	8.3	7.4	5.9	300
2	17.8	16.7	15.7	14.9	14.1	13.4	12.2	11.2	9.4	8.1	7.1	6.3	5.6	5.1	4.5	
3	17.5	16.2	15.2	14.2	13.4	12.6	11.3	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.0	
4	17.3	15.9	14.7	13.7	12.8	12.0	10.7	9.5	7.9	6.8	5.9	5.3	4.8	4.3	3.8	
5	17.1	15.6	14.3	13.2	12.3	11.5	10.2	9.1	7.6	6.5	5.7	5.1	4.6	-	-	
10	16.5	14.5	13.0	11.8	10.7	9.9	8.5	7.5	-	-	-	-	-	-	-	
15	16.0	13.8	12.1	10.8	9.8	8.9	-	-	-	-	-	-	-	-	-	
30	15.0	12.4	10.6	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives
■ 1.2 - 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 série), 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	46.8	46.8	45.8	45.1	44.6	44.2	43.4	42.8	42.3	41.9	41.5	41.1	40.5	39.9	39.0	5
2	46.5	46.5	45.8	45.1	44.6	44.2	43.3	42.4	41.4	40.6	39.7	38.9	38.1	37.4	36.3	
3	46.2	46.2	45.6	44.9	44.3	43.7	42.5	41.3	40.3	39.3	38.3	37.4	36.5	35.7	34.5	
4	46.0	46.0	45.3	44.5	43.8	43.1	41.8	40.5	39.3	38.2	37.2	36.2	35.2	34.3	33.1	
5	45.9	45.9	45.0	44.2	43.4	42.6	41.2	39.8	38.6	37.4	36.3	35.2	34.2	-	-	
10	45.8	45.2	44.0	42.9	41.9	40.9	39.1	37.4	-	-	-	-	-	-	-	
15	45.8	44.7	43.3	42.1	40.8	39.7	-	-	-	-	-	-	-	-	-	
30	45.6	43.7	41.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	46.5	46.5	45.8	45.1	44.6	44.2	43.3	42.3	41.4	40.5	39.7	38.9	38.1	37.3	36.3	10
2	46.0	46.0	45.3	44.5	43.8	43.1	41.7	40.5	39.3	38.2	37.1	36.1	35.2	34.3	33.0	
3	45.8	45.7	44.8	43.9	43.0	42.2	40.6	39.2	37.8	36.6	35.4	34.3	33.2	32.3	30.9	
4	45.8	45.4	44.3	43.3	42.4	41.4	39.7	38.1	36.7	35.3	34.0	32.9	31.8	30.7	29.3	
5	45.8	45.1	44.0	42.9	41.8	40.8	39.0	37.3	35.7	34.3	32.9	31.7	30.6	-	-	
10	45.8	44.2	42.6	41.2	39.8	38.6	36.3	34.2	-	-	-	-	-	-	-	
15	45.5	43.5	41.7	40.0	38.4	37.0	-	-	-	-	-	-	-	-	-	
30	44.7	42.1	39.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	46.0	46.0	45.3	44.5	43.8	43.1	41.7	40.5	39.3	38.2	37.1	36.1	35.2	34.3	33.0	20
2	45.8	45.4	44.3	43.3	42.3	41.4	39.7	38.1	36.6	35.3	34.0	32.8	31.7	30.7	29.3	
3	45.8	44.9	43.6	42.4	41.3	40.2	38.3	36.5	34.8	33.3	32.0	30.7	29.5	28.4	27.0	
4	45.8	44.5	43.1	41.7	40.5	39.3	37.1	35.2	33.4	31.8	30.4	29.1	27.9	26.8	25.3	
5	45.8	44.2	42.6	41.1	39.8	38.5	36.2	34.1	32.3	30.7	29.2	27.8	26.6	-	-	
10	45.1	42.9	40.8	39.0	37.3	35.7	32.9	30.6	-	-	-	-	-	-	-	
15	44.6	41.9	39.6	37.4	35.5	33.8	-	-	-	-	-	-	-	-	-	
30	43.5	40.0	37.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	45.8	45.4	44.3	43.3	42.3	41.4	39.7	38.1	36.6	35.3	34.0	32.8	31.7	29.5	26.0	40
2	45.8	44.5	43.1	41.7	40.5	39.3	37.1	35.2	33.4	31.8	30.4	29.1	27.9	26.8	24.6	
3	45.7	43.8	42.2	40.6	39.2	37.8	35.4	33.2	31.3	29.6	28.1	26.7	25.5	24.4	22.8	
4	45.4	43.3	41.4	39.7	38.1	36.6	34.0	31.7	29.7	28.0	26.4	25.0	23.8	22.6	21.1	
5	45.1	42.9	40.8	38.9	37.2	35.7	32.9	30.5	28.5	26.7	25.1	23.7	22.5	-	-	
10	44.2	41.1	38.5	36.2	34.1	32.3	29.2	26.6	-	-	-	-	-	-	-	
15	43.5	39.9	36.9	34.3	32.1	30.1	-	-	-	-	-	-	-	-	-	
30	41.9	37.4	33.8	-	-	-	-	-	-	-	-	-	-	-	-	
1	45.8	44.9	43.6	42.4	41.3	40.2	38.2	36.4	34.8	32.7	28.6	25.4	22.9	20.8	18.3	60
2	45.7	43.8	42.2	40.6	39.1	37.8	35.4	33.2	31.3	29.6	26.3	23.4	21.1	19.2	16.9	
3	45.3	43.1	41.1	39.3	37.6	36.1	33.4	31.1	29.1	27.3	25.6	22.8	20.5	18.6	16.4	
4	44.9	42.4	40.2	38.3	36.5	34.8	31.9	29.5	27.4	25.6	24.0	22.4	20.2	18.3	16.1	
5	44.6	41.9	39.5	37.4	35.5	33.7	30.7	28.2	26.1	24.3	22.7	21.3	20.0	-	-	
10	43.4	39.9	36.9	34.3	32.1	30.1	26.8	24.2	-	-	-	-	-	-	-	
15	42.6	38.5	35.1	32.3	29.9	27.8	-	-	-	-	-	-	-	-	-	
30	40.8	35.7	31.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	45.8	44.5	43.1	41.7	40.5	39.3	37.1	35.2	30.1	25.8	22.5	20.0	18.0	16.4	14.4	80
2	45.4	43.3	41.4	39.7	38.1	36.6	34.0	31.7	27.1	23.2	20.3	18.1	16.3	14.8	13.0	
3	44.9	42.4	40.2	38.2	36.4	34.8	31.9	29.5	26.1	22.4	19.6	17.4	15.7	14.2	12.5	
4	44.5	41.7	39.3	37.1	35.2	33.4	30.4	27.9	25.6	21.9	19.2	17.1	15.4	14.0	12.3	
5	44.2	41.1	38.5	36.2	34.1	32.3	29.1	26.6	24.4	21.7	19.0	16.9	15.2	-	-	
10	42.9	38.9	35.7	32.9	30.5	28.5	25.1	22.5	-	-	-	-	-	-	-	
15	41.9	37.4	33.8	30.8	28.3	26.1	-	-	-	-	-	-	-	-	-	
30	39.9	34.3	30.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	45.8	44.2	42.6	41.1	39.8	38.5	36.2	30.3	25.2	21.6	18.9	16.8	15.1	13.8	12.1	100
2	45.1	42.8	40.8	38.9	37.2	35.6	32.9	26.7	22.3	19.1	16.7	14.8	13.4	12.1	10.7	
3	44.6	41.9	39.5	37.4	35.5	33.7	30.7	25.5	21.3	18.2	16.0	14.2	12.8	11.6	10.2	
4	44.2	41.1	38.5	36.2	34.1	32.3	29.1	24.9	20.8	17.8	15.6	13.9	12.5	11.3	10.0	
5	43.8	40.5	37.6	35.2	33.0	31.1	27.9	24.6	20.5	17.6	15.4	13.7	12.3	-	-	
10	42.3	38.1	34.6	31.7	29.3	27.2	23.8	21.1	-	-	-	-	-	-	-	
15	41.3	36.5	32.6	29.5	27.0	24.8	-	-	-	-	-	-	-	-	-	
30	39.2	33.2	28.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	45.5	43.4	41.6	39.9	38.3	36.9	28.2	22.6	18.8	16.1	14.1	12.5	11.3	10.3	9.0	150
2	44.6	41.9	39.5	37.4	35.5	31.7	23.8	19.0	15.8	13.6	11.9	10.6	9.5	8.6	7.6	
3	44.0	40.8	38.0	35.6	33.5	29.7	22.3	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.1	
4	43.4	39.9	36.9	34.3	32.1	28.7	21.5	17.2	14.3	12.3	10.8	9.6	8.6	7.8	6.9	
5	43.0	39.1	35.9	33.2	30.9	28.1	21.1	16.9	14.0	12.0	10.5	9.4	8.4	-	-	
10	41.3	36.5	32.6	29.5	26.9	24.8	20.2	16.1	-	-	-	-	-	-	-	
15	40.1	34.6	30.5	27.2	24.6	22.4	-	-	-	-	-	-	-	-	-	
30	37.6	31.1	26.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	44.6	41.9	39.5	37.1	29.7	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.8	5.9	300
2	43.4	39.9	36.9	28.2	22.6	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6	5.1	4.5	
3	42.6	38.5	33.7	25.2	20.2	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.0	
4	41.9	37.4	31.7	23.8	19.0	15.8	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3	3.8	
5	41.3	36.4	30.5	22.9	18.3	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.6	-	-	
10	39.1	33.2	28.1	21.1	16.9	14.0	10.5	8.4	-	-	-	-	-	-	-	
15	37.6	31.1	26.5	20.5	16.4	13.7	-	-	-	-	-	-	-	-	-	
30	34.6	27.2	22.4	-	-	-	-	-	-	-	-	-	-	-	-	

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	22.4	22.4	22.0	21.7	21.5	21.3	21.0	20.8	20.6	20.4	20.2	20.1	19.8	19.5	19.2	5
2	22.3	22.3	22.0	21.7	21.5	21.3	21.0	20.6	20.2	19.8	19.5	19.1	18.8	18.5	18.0	
3	22.2	22.2	21.9	21.7	21.4	21.1	20.6	20.2	19.7	19.3	18.9	18.5	18.1	17.7	17.2	
4	22.1	22.1	21.8	21.5	21.2	20.9	20.3	19.8	19.3	18.8	18.4	18.0	17.5	17.1	16.6	
5	22.0	22.0	21.7	21.4	21.0	20.7	20.1	19.5	19.0	18.5	18.0	17.5	17.1	-	-	
10	22.0	21.8	21.3	20.8	20.4	20.0	19.2	18.5	-	-	-	-	-	-	-	
15	22.0	21.6	21.0	20.5	20.0	19.5	-	-	-	-	-	-	-	-	-	
30	21.9	21.1	20.4	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.3	22.3	22.0	21.7	21.5	21.3	21.0	20.6	20.2	19.8	19.5	19.1	18.8	18.5	18.0	10
2	22.1	22.1	21.8	21.5	21.2	20.9	20.3	19.8	19.3	18.8	18.4	17.9	17.5	17.1	16.6	
3	22.0	22.0	21.6	21.2	20.9	20.5	19.9	19.2	18.7	18.1	17.6	17.1	16.7	16.2	15.6	
4	22.0	21.9	21.4	21.0	20.6	20.2	19.5	18.8	18.2	17.6	17.0	16.5	16.0	15.5	14.9	
5	22.0	21.8	21.3	20.8	20.4	19.9	19.1	18.4	17.7	17.1	16.5	16.0	15.5	-	-	
10	22.0	21.4	20.7	20.1	19.5	19.0	18.0	17.1	-	-	-	-	-	-	-	
15	21.9	21.1	20.3	19.6	18.9	18.3	-	-	-	-	-	-	-	-	-	
30	21.6	20.5	19.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.1	22.1	21.8	21.5	21.2	20.9	20.3	19.8	19.3	18.8	18.4	17.9	17.5	17.1	16.5	20
2	22.0	21.9	21.4	21.0	20.6	20.2	19.5	18.8	18.1	17.5	17.0	16.5	16.0	15.5	14.9	
3	22.0	21.7	21.1	20.6	20.2	19.7	18.9	18.1	17.4	16.7	16.1	15.5	15.0	14.5	13.8	
4	22.0	21.5	20.9	20.3	19.8	19.3	18.4	17.5	16.7	16.0	15.4	14.8	14.2	13.7	13.0	
5	22.0	21.3	20.7	20.1	19.5	19.0	18.0	17.0	16.2	15.5	14.8	14.2	13.6	-	-	
10	21.8	20.8	19.9	19.1	18.4	17.7	16.5	15.5	-	-	-	-	-	-	-	
15	21.5	20.4	19.4	18.5	17.7	16.9	-	-	-	-	-	-	-	-	-	
30	21.1	19.6	18.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.0	21.9	21.4	21.0	20.6	20.2	19.5	18.8	18.1	17.5	17.0	16.5	16.0	15.5	14.9	40
2	22.0	21.5	20.9	20.3	19.8	19.3	18.4	17.5	16.7	16.0	15.4	14.8	14.2	13.7	13.0	
3	22.0	21.2	20.5	19.9	19.2	18.7	17.6	16.6	15.8	15.0	14.3	13.7	13.1	12.6	11.8	
4	21.9	21.0	20.2	19.5	18.8	18.1	17.0	16.0	15.1	14.3	13.5	12.9	12.3	11.8	11.0	
5	21.7	20.8	19.9	19.1	18.4	17.7	16.5	15.4	14.5	13.7	12.9	12.3	11.7	-	-	
10	21.3	20.1	19.0	18.0	17.0	16.2	14.8	13.6	-	-	-	-	-	-	-	
15	21.1	19.6	18.3	17.1	16.1	15.3	-	-	-	-	-	-	-	-	-	
30	20.4	18.5	16.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.0	21.7	21.1	20.6	20.2	19.7	18.8	18.1	17.3	16.7	16.1	15.5	15.0	14.5	13.8	60
2	22.0	21.2	20.5	19.9	19.2	18.7	17.6	16.6	15.8	15.0	14.3	13.7	13.1	12.6	11.8	
3	21.8	20.9	20.1	19.3	18.6	17.9	16.7	15.7	14.8	14.0	13.2	12.6	12.0	11.4	10.7	
4	21.7	20.6	19.7	18.8	18.1	17.3	16.1	15.0	14.0	13.2	12.4	11.7	11.1	10.6	9.9	
5	21.5	20.4	19.4	18.5	17.6	16.9	15.5	14.4	13.4	12.5	11.8	11.1	10.5	-	-	
10	21.0	19.6	18.3	17.1	16.1	15.2	13.7	12.5	-	-	-	-	-	-	-	
15	20.7	19.0	17.5	16.2	15.1	14.2	-	-	-	-	-	-	-	-	-	
30	19.9	17.7	16.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.0	21.5	20.9	20.3	19.8	19.3	18.4	17.5	16.7	16.0	15.4	14.8	14.2	13.7	13.0	80
2	21.9	21.0	20.2	19.5	18.8	18.1	17.0	16.0	15.1	14.3	13.5	12.9	12.3	11.8	11.0	
3	21.7	20.6	19.7	18.8	18.1	17.3	16.1	15.0	14.0	13.2	12.4	11.7	11.1	10.6	9.9	
4	21.5	20.3	19.3	18.4	17.5	16.7	15.4	14.2	13.2	12.4	11.6	10.9	10.3	9.8	9.1	
5	21.3	20.1	19.0	17.9	17.0	16.2	14.8	13.6	12.6	11.7	11.0	10.3	9.7	-	-	
10	20.8	19.1	17.7	16.5	15.4	14.5	12.9	11.7	-	-	-	-	-	-	-	
15	20.4	18.5	16.9	15.5	14.4	13.4	-	-	-	-	-	-	-	-	-	
30	19.6	17.1	15.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	22.0	21.3	20.7	20.1	19.5	19.0	17.9	17.0	16.2	15.5	14.8	14.2	13.6	13.1	12.1	100
2	21.7	20.8	19.9	19.1	18.4	17.7	16.5	15.4	14.5	13.7	12.9	12.3	11.7	11.1	10.4	
3	21.5	20.4	19.4	18.5	17.6	16.9	15.5	14.4	13.4	12.5	11.8	11.1	10.5	10.0	9.3	
4	21.3	20.1	19.0	17.9	17.0	16.2	14.8	13.6	12.6	11.7	11.0	10.3	9.7	9.2	8.5	
5	21.2	19.8	18.6	17.5	16.5	15.7	14.2	13.0	12.0	11.1	10.3	9.7	9.1	-	-	
10	20.6	18.8	17.3	16.0	14.9	13.9	12.3	11.0	-	-	-	-	-	-	-	
15	20.2	18.1	16.4	15.0	13.8	12.8	-	-	-	-	-	-	-	-	-	
30	19.2	16.7	14.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.9	21.0	20.3	19.6	18.9	18.3	17.1	16.1	15.2	14.4	13.7	12.5	11.3	10.3	9.0	150
2	21.5	20.4	19.4	18.5	17.6	16.9	15.5	14.4	13.4	12.5	11.8	10.6	9.5	8.6	7.6	
3	21.3	19.9	18.8	17.7	16.8	15.9	14.5	13.3	12.3	11.4	10.6	9.9	8.9	8.1	7.1	
4	21.0	19.6	18.3	17.1	16.1	15.2	13.7	12.5	11.4	10.6	9.8	9.2	8.6	7.8	6.9	
5	20.9	19.2	17.8	16.6	15.6	14.7	13.1	11.8	10.8	9.9	9.2	8.6	8.0	-	-	
10	20.2	18.1	16.4	15.0	13.8	12.8	11.1	9.9	-	-	-	-	-	-	-	
15	19.6	17.3	15.4	13.9	12.7	11.6	-	-	-	-	-	-	-	-	-	
30	18.6	15.7	13.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	21.5	20.4	19.4	18.5	17.6	16.9	15.5	14.4	12.4	10.6	9.3	8.3	7.4	6.8	5.9	300
2	21.0	19.6	18.3	17.1	16.1	15.2	13.7	11.3	9.4	8.1	7.1	6.3	5.6	5.1	4.5	
3	20.7	19.0	17.5	16.2	15.1	14.2	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.0	
4	20.4	18.5	16.9	15.5	14.4	13.4	11.8	9.5	7.9	6.8	5.9	5.3	4.8	4.3	3.8	
5	20.2	18.1	16.4	15.0	13.8	12.8	11.1	9.1	7.6	6.5	5.7	5.1	4.6	-	-	
10	19.2	16.6	14.7	13.1	11.8	10.8	9.2	8.0	-	-	-	-	-	-	-	
15	18.6	15.7	13.6	12.0	10.7	9.7	-	-	-	-	-	-	-	-	-	
30	17.3	13.9	11.6	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives
 1.2 - 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 série), 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	56.0	56.0	54.6	53.6	52.8	52.2	51.2	50.4	49.7	49.1	48.5	48.0	47.2	46.3	45.2	5
2	55.5	55.5	54.6	53.6	52.8	52.2	51.1	49.7	48.5	47.3	46.1	45.0	44.0	43.0	41.6	
3	55.2	55.2	54.2	53.3	52.4	51.5	49.9	48.3	46.9	45.5	44.2	43.0	41.8	40.7	39.2	
4	54.9	54.9	53.8	52.7	51.7	50.8	48.9	47.2	45.6	44.1	42.7	41.4	40.2	39.0	37.4	
5	54.6	54.6	53.4	52.3	51.2	50.1	48.1	46.3	44.6	43.0	41.5	40.1	38.9	-	-	
10	54.6	53.7	52.0	50.5	49.1	47.7	45.2	43.0	-	-	-	-	-	-	-	
15	54.6	53.0	51.1	49.3	47.7	46.1	-	-	-	-	-	-	-	-	-	
30	54.2	51.5	49.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	55.5	55.5	54.6	53.6	52.8	52.2	51.0	49.7	48.4	47.2	46.1	45.0	44.0	43.0	41.6	10
2	54.9	54.9	53.8	52.7	51.7	50.7	48.9	47.2	45.6	44.1	42.7	41.4	40.1	39.0	37.3	
3	54.6	54.4	53.1	51.8	50.6	49.5	47.3	45.4	43.6	41.9	40.4	38.9	37.6	36.4	34.6	
4	54.6	54.0	52.5	51.1	49.7	48.5	46.1	44.0	42.0	40.3	38.6	37.1	35.7	34.4	32.7	
5	54.6	53.6	52.0	50.4	49.0	47.6	45.1	42.8	40.8	38.9	37.2	35.7	34.2	-	-	
10	54.6	52.3	50.1	48.1	46.3	44.6	41.5	38.9	-	-	-	-	-	-	-	
15	54.1	51.3	48.8	46.5	44.4	42.5	-	-	-	-	-	-	-	-	-	
30	53.0	49.3	46.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	54.9	54.9	53.8	52.7	51.7	50.7	48.9	47.1	45.5	44.1	42.7	41.3	40.1	38.9	37.3	20
2	54.6	53.9	52.5	51.0	49.7	48.4	46.1	44.0	42.0	40.2	38.6	37.1	35.7	34.4	32.6	
3	54.6	53.3	51.5	49.8	48.3	46.8	44.2	41.8	39.7	37.7	36.0	34.4	32.9	31.6	29.8	
4	54.6	52.7	50.7	48.9	47.2	45.6	42.7	40.1	37.9	35.8	34.0	32.4	30.9	29.5	27.7	
5	54.6	52.2	50.1	48.1	46.2	44.5	41.4	38.8	36.4	34.3	32.5	30.8	29.3	-	-	
10	53.6	50.4	47.6	45.1	42.8	40.8	37.2	34.2	-	-	-	-	-	-	-	
15	52.9	49.1	45.9	43.1	40.6	38.3	-	-	-	-	-	-	-	-	-	
30	51.3	46.5	42.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	54.6	53.9	52.5	51.0	49.7	48.4	46.1	43.9	42.0	40.2	38.6	36.1	32.5	29.5	26.0	40
2	54.6	52.7	50.7	48.9	47.1	45.5	42.7	40.1	37.8	35.8	34.0	32.4	30.7	27.9	24.6	
3	54.4	51.8	49.5	47.3	45.4	43.6	40.3	37.6	35.2	33.0	31.2	29.5	28.0	26.6	24.1	
4	53.9	51.0	48.4	46.1	44.0	42.0	38.6	35.7	33.2	31.0	29.1	27.4	25.9	24.6	22.8	
5	53.6	50.4	47.6	45.1	42.8	40.7	37.2	34.2	31.6	29.4	27.5	25.9	24.4	-	-	
10	52.2	48.1	44.5	41.4	38.8	36.4	32.5	29.3	-	-	-	-	-	-	-	
15	51.2	46.4	42.4	39.0	36.2	33.7	-	-	-	-	-	-	-	-	-	
30	49.1	43.1	38.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	54.6	53.3	51.5	49.8	48.3	46.8	44.2	41.8	38.1	32.7	28.6	25.4	22.9	20.8	18.3	60
2	54.4	51.8	49.5	47.3	45.4	43.6	40.3	37.6	35.1	30.1	26.3	23.4	21.1	19.2	16.9	
3	53.8	50.7	48.0	45.5	43.3	41.3	37.8	34.9	32.4	29.3	25.6	22.8	20.5	18.6	16.4	
4	53.3	49.8	46.8	44.2	41.8	39.6	36.0	32.9	30.3	28.1	25.2	22.4	20.2	18.3	16.1	
5	52.8	49.1	45.8	43.0	40.5	38.3	34.5	31.3	28.7	26.5	24.7	22.2	20.0	-	-	
10	51.2	46.4	42.4	39.0	36.1	33.7	29.6	26.4	-	-	-	-	-	-	-	
15	50.1	44.5	40.1	36.4	33.4	30.8	-	-	-	-	-	-	-	-	-	
30	47.6	40.8	35.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	54.6	52.7	50.7	48.9	47.1	45.5	42.6	36.1	30.1	25.8	22.5	20.0	18.0	16.4	14.4	80
2	53.9	51.0	48.4	46.1	43.9	42.0	38.6	32.5	27.1	23.2	20.3	18.1	16.3	14.8	13.0	
3	53.3	49.8	46.8	44.2	41.8	39.6	36.0	31.3	26.1	22.4	19.6	17.4	15.7	14.2	12.5	
4	52.7	48.9	45.5	42.7	40.1	37.8	34.0	30.7	25.6	21.9	19.2	17.1	15.4	14.0	12.3	
5	52.2	48.0	44.5	41.4	38.7	36.4	32.5	29.3	25.3	21.7	19.0	16.9	15.2	-	-	
10	50.4	45.1	40.7	37.2	34.2	31.6	27.5	24.4	-	-	-	-	-	-	-	
15	49.1	43.0	38.3	34.5	31.4	28.8	-	-	-	-	-	-	-	-	-	
30	46.4	39.0	33.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	54.6	52.2	50.0	48.0	46.2	44.5	37.9	30.3	25.2	21.6	18.9	16.8	15.1	13.8	12.1	100
2	53.6	50.4	47.6	45.0	42.8	40.7	33.4	26.7	22.3	19.1	16.7	14.8	13.4	12.1	10.7	
3	52.8	49.1	45.8	43.0	40.5	38.2	31.9	25.5	21.3	18.2	16.0	14.2	12.8	11.6	10.2	
4	52.2	48.0	44.5	41.4	38.7	36.4	31.2	24.9	20.8	17.8	15.6	13.9	12.5	11.3	10.0	
5	51.7	47.1	43.3	40.1	37.3	34.9	30.7	24.6	20.5	17.6	15.4	13.7	12.3	-	-	
10	49.7	44.0	39.4	35.7	32.6	30.0	25.9	22.8	-	-	-	-	-	-	-	
15	48.3	41.8	36.8	32.9	29.8	27.2	-	-	-	-	-	-	-	-	-	
30	45.4	37.6	32.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	54.0	51.2	48.7	46.4	44.3	37.6	28.2	22.6	18.8	16.1	14.1	12.5	11.3	10.3	9.0	150
2	52.8	49.1	45.8	43.0	38.0	31.7	23.8	19.0	15.8	13.6	11.9	10.6	9.5	8.6	7.6	
3	51.9	47.6	43.9	40.7	35.6	29.7	22.3	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.1	
4	51.2	46.4	42.4	39.0	34.4	28.7	21.5	17.2	14.3	12.3	10.8	9.6	8.6	7.8	6.9	
5	50.6	45.4	41.1	37.6	33.7	28.1	21.1	16.9	14.0	12.0	10.5	9.4	8.4	-	-	
10	48.3	41.8	36.8	32.9	29.7	26.9	20.2	16.1	-	-	-	-	-	-	-	
15	46.7	39.4	34.1	30.0	26.9	24.3	-	-	-	-	-	-	-	-	-	
30	43.4	34.9	29.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	52.8	49.1	45.8	37.1	29.7	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.8	5.9	300
2	51.2	46.4	37.6	28.2	22.6	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6	5.1	4.5	
3	50.0	44.5	33.7	25.2	20.2	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.0	
4	49.1	43.0	31.7	23.8	19.0	15.8	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3	3.8	
5	48.3	41.8	30.5	22.9	18.3	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.6	-	-	
10	45.4	37.6	28.1	21.1	16.9	14.0	10.5	8.4	-	-	-	-	-	-	-	
15	43.3	34.9	27.3	20.5	16.4	13.7	-	-	-	-	-	-	-	-	-	
30	39.4	30.0	24.3	-	-	-	-	-	-	-	-	-	-	-	-	

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

▣ 0.6 - 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	30.7	29.9	29.4	29.0	28.6	28.3	27.8	27.4	27.0	26.7	26.4	26.1	25.8	25.3	24.6	5
2	30.7	29.9	29.4	29.0	28.6	28.3	27.8	27.3	26.5	25.8	25.2	24.5	23.9	23.4	22.6	
3	30.7	29.9	29.4	29.0	28.6	28.3	27.4	26.5	24.8	24.1	23.4	22.7	22.1	21.2		
4	30.7	29.9	29.4	29.0	28.4	27.9	26.8	25.8	24.9	24.0	23.2	22.5	21.7	21.1	20.2	
5	30.7	29.9	29.4	28.8	28.1	27.5	26.3	25.2	24.3	23.3	22.5	21.7	21.0	-	-	
10	30.6	29.6	28.6	27.7	26.9	26.1	24.6	23.3	-	-	-	-	-	-	-	
15	30.4	29.1	28.0	27.0	26.0	25.1	-	-	-	-	-	-	-	-	-	
30	29.9	28.2	26.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	30.7	29.9	29.4	29.0	28.6	28.3	27.8	27.3	26.5	25.8	25.2	24.5	23.9	23.4	22.6	10
2	30.7	29.9	29.4	29.0	28.4	27.9	26.8	25.8	24.9	24.0	23.2	22.4	21.7	21.1	20.1	
3	30.7	29.9	29.2	28.5	27.8	27.1	25.9	24.8	23.7	22.8	21.9	21.1	20.3	19.6	18.6	
4	30.7	29.8	28.9	28.1	27.3	26.5	25.2	23.9	22.8	21.8	20.9	20.0	19.2	18.5	17.5	
5	30.6	29.6	28.6	27.7	26.8	26.0	24.6	23.3	22.1	21.0	20.1	19.2	18.4	-	-	
10	30.2	28.8	27.5	26.3	25.2	24.3	22.5	21.0	-	-	-	-	-	-	-	
15	29.8	28.2	26.7	25.4	24.1	23.0	-	-	-	-	-	-	-	-	-	
30	29.1	27.0	25.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	30.7	29.9	29.4	29.0	28.4	27.9	26.8	25.8	24.9	24.0	23.2	22.4	21.7	21.1	20.1	20
2	30.7	29.8	28.9	28.1	27.3	26.5	25.2	23.9	22.8	21.8	20.9	20.0	19.2	18.5	17.5	
3	30.5	29.4	28.3	27.4	26.4	25.6	24.1	22.7	21.5	20.4	19.4	18.5	17.7	16.9	15.9	
4	30.3	29.0	27.9	26.8	25.8	24.9	23.2	21.7	20.4	19.3	18.3	17.4	16.5	15.8	14.8	
5	30.2	28.8	27.5	26.3	25.2	24.2	22.5	21.0	19.6	18.5	17.4	16.5	15.7	-	-	
10	29.6	27.7	26.0	24.6	23.3	22.1	20.1	18.4	-	-	-	-	-	-	-	
15	29.1	26.9	25.0	23.4	22.0	20.7	-	-	-	-	-	-	-	-	-	
30	28.2	25.4	23.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	30.7	29.8	28.9	28.1	27.3	26.5	25.2	23.9	22.8	21.8	20.9	20.0	19.2	18.5	17.5	40
2	30.3	29.0	27.9	26.8	25.8	24.9	23.2	21.7	20.4	19.3	18.3	17.4	16.5	15.8	14.8	
3	30.0	28.5	27.1	25.9	24.7	23.7	21.9	20.3	18.9	17.7	16.7	15.8	14.9	14.2	13.2	
4	29.8	28.1	26.5	25.2	23.9	22.8	20.9	19.2	17.8	16.6	15.6	14.6	13.8	13.1	12.1	
5	29.6	27.7	26.0	24.6	23.3	22.1	20.1	18.4	16.9	15.7	14.7	13.8	12.9	-	-	
10	28.8	26.3	24.2	22.5	21.0	19.6	17.4	15.7	-	-	-	-	-	-	-	
15	28.2	25.3	23.0	21.1	19.5	18.1	-	-	-	-	-	-	-	-	-	
30	26.9	23.4	20.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	30.5	29.4	28.3	27.4	26.4	25.6	24.1	22.7	21.5	20.4	19.4	18.5	17.7	16.9	15.9	60
2	30.0	28.5	27.1	25.9	24.7	23.7	21.9	20.3	18.9	17.7	16.7	15.8	14.9	14.2	13.2	
3	29.7	27.9	26.3	24.9	23.6	22.4	20.4	18.8	17.4	16.1	15.1	14.2	13.3	12.6	11.7	
4	29.4	27.4	25.6	24.1	22.7	21.5	19.4	17.7	16.2	15.0	14.0	13.0	12.2	11.5	10.6	
5	29.1	26.9	25.0	23.4	22.0	20.7	18.5	16.8	15.3	14.1	13.1	12.2	11.4	-	-	
10	28.2	25.3	23.0	21.1	19.5	18.1	15.8	14.1	-	-	-	-	-	-	-	
15	27.5	24.2	21.7	19.6	17.9	16.5	-	-	-	-	-	-	-	-	-	
30	26.0	22.1	19.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	30.3	29.0	27.9	26.8	25.8	24.9	23.2	21.7	20.4	19.3	18.3	17.4	16.5	15.8	14.4	80
2	29.8	28.1	26.5	25.2	23.9	22.8	20.9	19.2	17.8	16.6	15.6	14.6	13.8	13.1	12.1	
3	29.4	27.4	25.6	24.1	22.7	21.5	19.4	17.7	16.2	15.0	14.0	13.0	12.2	11.5	10.6	
4	29.0	26.8	24.9	23.2	21.7	20.4	18.3	16.5	15.1	13.9	12.8	12.0	11.2	10.5	9.6	
5	28.8	26.3	24.2	22.5	21.0	19.6	17.4	15.6	14.2	13.0	12.0	11.1	10.4	-	-	
10	27.7	24.6	22.1	20.1	18.4	16.9	14.7	12.9	-	-	-	-	-	-	-	
15	26.9	23.4	20.7	18.5	16.8	15.3	-	-	-	-	-	-	-	-	-	
30	25.3	21.1	18.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	30.2	28.7	27.5	26.3	25.2	24.2	22.5	21.0	19.6	18.4	17.4	16.5	15.1	13.8	12.1	100
2	29.6	27.7	26.0	24.6	23.3	22.1	20.1	18.4	16.9	15.7	14.7	13.7	12.9	12.1	10.7	
3	29.1	26.9	25.0	23.4	21.9	20.7	18.5	16.8	15.3	14.1	13.1	12.2	11.4	10.7	9.8	
4	28.8	26.3	24.2	22.5	21.0	19.6	17.4	15.6	14.2	13.0	12.0	11.1	10.4	9.7	8.9	
5	28.4	25.8	23.6	21.7	20.1	18.8	16.5	14.8	13.3	12.2	11.2	10.3	9.6	-	-	
10	27.3	23.9	21.3	19.2	17.5	16.1	13.8	12.1	-	-	-	-	-	-	-	
15	26.4	22.7	19.9	17.7	15.9	14.5	-	-	-	-	-	-	-	-	-	
30	24.8	20.3	17.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	29.8	28.2	26.7	25.3	24.1	23.0	21.1	19.5	18.1	16.1	14.1	12.5	11.3	10.3	9.0	150
2	29.1	26.9	25.0	23.4	21.9	20.7	18.5	16.8	15.3	13.6	11.9	10.6	9.5	8.6	7.6	
3	28.6	26.0	23.9	22.1	20.5	19.2	16.9	15.2	13.7	12.6	11.1	9.9	8.9	8.1	7.1	
4	28.2	25.3	23.0	21.1	19.5	18.1	15.8	14.0	12.6	11.5	10.5	9.6	8.6	7.8	6.9	
5	27.8	24.7	22.3	20.3	18.6	17.2	14.9	13.2	11.8	10.7	9.8	9.0	8.3	-	-	
10	26.4	22.7	19.9	17.7	15.9	14.5	12.2	10.6	-	-	-	-	-	-	-	
15	25.5	21.3	18.3	16.1	14.3	12.9	-	-	-	-	-	-	-	-	-	
30	23.6	18.8	15.6	-	-	-	-	-	-	-	-	-	-	-	-	
1	29.1	26.9	25.0	23.4	21.9	20.7	18.5	16.8	15.3	13.6	11.9	10.6	9.5	8.6	7.6	300
2	28.2	25.3	23.0	21.1	19.5	18.1	14.1	11.3	9.4	8.1	7.1	6.3	5.6	5.1	4.5	
3	27.5	24.2	21.7	19.6	17.9	16.5	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.0	
4	26.9	23.4	20.7	18.5	16.8	15.3	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3	3.8	
5	26.4	22.7	19.9	17.7	15.9	14.5	11.4	9.1	7.6	6.5	5.7	5.1	4.6	-	-	
10	24.7	20.3	17.2	14.9	13.2	11.8	9.8	8.3	-	-	-	-	-	-	-	
15	23.6	18.8	15.6	13.3	11.7	10.3	-	-	-	-	-	-	-	-	-	
30	21.3	16.1	12.9	-	-	-	-	-	-	-	-	-	-	-	-	

Abaco per carichi in serie - Serial load rating - Abaque de charges successives
■ 1.2 - 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 série), 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	80.8	77.8	75.9	74.5	73.3	72.3	70.5	69.1	67.8	66.7	65.7	64.8	63.8	62.3	60.1	5
2	80.8	77.8	75.9	74.5	73.3	72.3	70.5	68.7	66.2	63.9	61.8	59.8	57.9	56.2	53.7	
3	80.8	77.8	75.9	74.5	73.3	72.3	69.0	66.0	63.2	60.6	58.3	56.1	54.1	52.2	49.6	
4	80.8	77.8	75.9	74.5	72.7	70.7	67.1	63.8	60.8	58.1	55.6	53.4	51.3	49.3	46.7	
5	80.8	77.8	75.9	73.8	71.5	69.4	65.5	62.0	58.9	56.1	53.5	51.2	49.0	-	-	
10	80.4	76.6	73.3	70.2	67.3	64.7	60.0	55.9	-	-	-	-	-	-	-	
15	79.5	75.1	71.2	67.6	64.4	61.5	-	-	-	-	-	-	-	-	-	
30	77.7	71.9	66.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	80.8	77.8	75.9	74.5	73.3	72.3	70.5	68.7	66.2	63.9	61.8	59.8	57.9	56.1	53.7	10
2	80.8	77.8	75.9	74.5	72.7	70.7	67.1	63.8	60.8	58.1	55.6	53.3	51.2	49.3	46.6	
3	80.8	77.8	75.5	72.9	70.5	68.2	64.1	60.5	57.2	54.3	51.7	49.3	47.1	45.1	42.4	
4	80.8	77.4	74.3	71.4	68.7	66.2	61.8	57.9	54.5	51.5	48.7	46.3	44.1	42.1	39.4	
5	80.3	76.6	73.2	70.1	67.2	64.6	59.9	55.9	52.3	49.2	46.4	43.9	41.7	-	-	
10	78.8	73.8	69.4	65.5	62.0	58.9	53.5	49.0	-	-	-	-	-	-	-	
15	77.6	71.8	66.7	62.4	58.6	55.2	-	-	-	-	-	-	-	-	-	
30	75.1	67.6	61.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	80.8	77.8	75.9	74.5	72.7	70.7	67.1	63.8	60.8	58.1	55.6	53.3	51.2	49.3	46.6	20
2	80.8	77.4	74.2	71.4	68.7	66.2	61.8	57.9	54.5	51.4	48.7	46.3	44.1	42.0	39.3	
3	80.0	75.9	72.3	69.0	65.9	63.2	58.3	54.1	50.5	47.3	44.5	42.0	39.8	37.8	35.1	
4	79.3	74.8	70.7	67.1	63.8	60.8	55.6	51.2	47.5	44.3	41.5	39.0	36.8	34.8	32.2	
5	78.8	73.8	69.4	65.5	62.0	58.9	53.5	49.0	45.2	41.9	39.1	36.6	34.5	-	-	
10	76.6	70.1	64.6	59.9	55.9	52.3	46.4	41.7	-	-	-	-	-	-	-	
15	75.1	67.5	61.4	56.3	51.9	48.2	-	-	-	-	-	-	-	-	-	
30	71.8	62.4	55.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	80.8	77.4	74.2	71.4	68.7	66.2	61.8	57.9	54.2	46.4	40.6	36.1	32.5	29.5	26.0	40
2	79.3	74.8	70.7	67.1	63.8	60.8	55.6	51.2	47.5	43.9	38.4	34.1	30.7	27.9	24.6	
3	78.2	72.9	68.2	64.1	60.4	57.2	51.6	47.1	43.2	40.0	37.2	33.5	30.1	27.4	24.1	
4	77.4	71.4	66.2	61.8	57.9	54.5	48.7	44.1	40.2	37.0	34.2	31.9	29.8	27.1	23.9	
5	76.6	70.1	64.6	59.9	55.8	52.3	46.4	41.7	37.9	34.7	32.0	29.7	27.7	-	-	
10	73.8	65.5	58.9	53.5	49.0	45.2	39.1	34.5	-	-	-	-	-	-	-	
15	71.7	62.3	55.1	49.4	44.7	40.9	-	-	-	-	-	-	-	-	-	
30	67.5	56.3	48.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	80.0	75.9	72.3	69.0	65.9	63.2	57.1	45.7	38.1	32.7	28.6	25.4	22.9	20.8	18.3	60
2	78.2	72.9	68.2	64.1	60.4	57.2	51.6	42.1	35.1	30.1	26.3	23.4	21.1	19.2	16.9	
3	77.0	70.7	65.4	60.8	56.8	53.3	47.5	41.0	34.1	29.3	25.6	22.8	20.5	18.6	16.4	
4	75.9	69.0	63.2	58.3	54.1	50.4	44.5	39.8	33.6	28.8	25.2	22.4	20.2	18.3	16.1	
5	75.0	67.5	61.3	56.2	51.9	48.2	42.1	37.4	33.3	28.6	25.0	22.2	20.0	-	-	
10	71.7	62.3	55.1	49.4	44.7	40.9	34.9	30.4	-	-	-	-	-	-	-	
15	69.4	58.9	51.1	45.2	40.5	36.6	-	-	-	-	-	-	-	-	-	
30	64.6	52.3	43.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	79.3	74.8	70.7	67.1	63.8	60.1	45.1	36.1	30.1	25.8	22.5	20.0	18.0	16.4	14.4	80
2	77.4	71.4	66.2	61.8	57.9	54.2	40.6	32.5	27.1	23.2	20.3	18.1	16.3	14.8	13.0	
3	75.9	69.0	63.2	58.3	54.1	50.4	39.1	31.3	26.1	22.4	19.6	17.4	15.7	14.2	12.5	
4	74.8	67.1	60.8	55.6	51.2	47.5	38.4	30.7	25.6	21.9	19.2	17.1	15.4	14.0	12.3	
5	73.8	65.5	58.8	53.4	49.0	45.2	38.0	30.4	25.3	21.7	19.0	16.9	15.2	-	-	
10	70.1	59.9	52.3	46.4	41.7	37.9	32.0	27.7	-	-	-	-	-	-	-	
15	67.5	56.2	48.2	42.1	37.4	33.7	-	-	-	-	-	-	-	-	-	
30	62.3	49.4	40.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	78.7	73.8	69.4	65.5	60.6	50.5	37.9	30.3	25.2	21.6	18.9	16.8	15.1	13.8	12.1	100
2	76.6	70.1	64.6	59.9	53.4	44.5	33.4	26.7	22.3	19.1	16.7	14.8	13.4	12.1	10.7	
3	75.0	67.5	61.3	56.2	51.1	42.5	31.9	25.5	21.3	18.2	16.0	14.2	12.8	11.6	10.2	
4	73.8	65.5	58.8	53.4	49.0	41.6	31.2	24.9	20.8	17.8	15.6	13.9	12.5	11.3	10.0	
5	72.7	63.8	56.8	51.2	46.6	41.0	30.7	24.6	20.5	17.6	15.4	13.7	12.3	-	-	
10	68.7	57.9	50.0	44.1	39.3	35.5	29.8	23.9	-	-	-	-	-	-	-	
15	65.9	54.1	45.8	39.8	35.1	31.5	-	-	-	-	-	-	-	-	-	
30	60.5	47.1	38.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	77.6	71.7	66.7	62.4	58.6	45.1	37.6	28.2	22.6	18.8	16.1	14.1	12.5	11.3	10.3	150
2	75.0	67.5	61.3	47.5	38.0	31.7	23.8	19.0	15.8	13.6	11.9	10.6	9.5	8.6	7.6	
3	73.2	64.6	57.8	44.5	35.6	29.7	22.3	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.1	
4	71.7	62.3	55.1	43.0	34.4	28.7	21.5	17.2	14.3	12.3	10.8	9.6	8.6	7.8	6.9	
5	70.5	60.4	52.9	42.1	33.7	28.1	21.1	16.9	14.0	12.0	10.5	9.4	8.4	-	-	
10	65.9	54.1	45.8	39.8	32.3	26.9	20.2	16.1	-	-	-	-	-	-	-	
15	62.8	50.0	41.6	35.5	31.1	26.5	-	-	-	-	-	-	-	-	-	
30	56.8	42.8	34.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	75.0	67.5	49.5	37.1	29.7	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.8	5.9	300
2	71.7	56.4	37.6	28.2	22.6	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6	5.1	4.5	
3	69.4	50.5	33.7	25.2	20.2	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.0	
4	67.5	47.5	31.7	23.8	19.0	15.8	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3	3.8	
5	65.9	45.7	30.5	22.9	18.3	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.6	-	-	
10	60.4	42.1	28.1	21.1	16.9	14.0	10.5	8.4	-	-	-	-	-	-	-	
15	56.8	41.0	27.3	20.5	16.4	13.7	-	-	-	-	-	-	-	-	-	
30	50.0	35.5	26.5	-	-	-	-	-	-	-	-	-	-	-	-	

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

0.6 - 3 ~ - 10000 min⁻¹

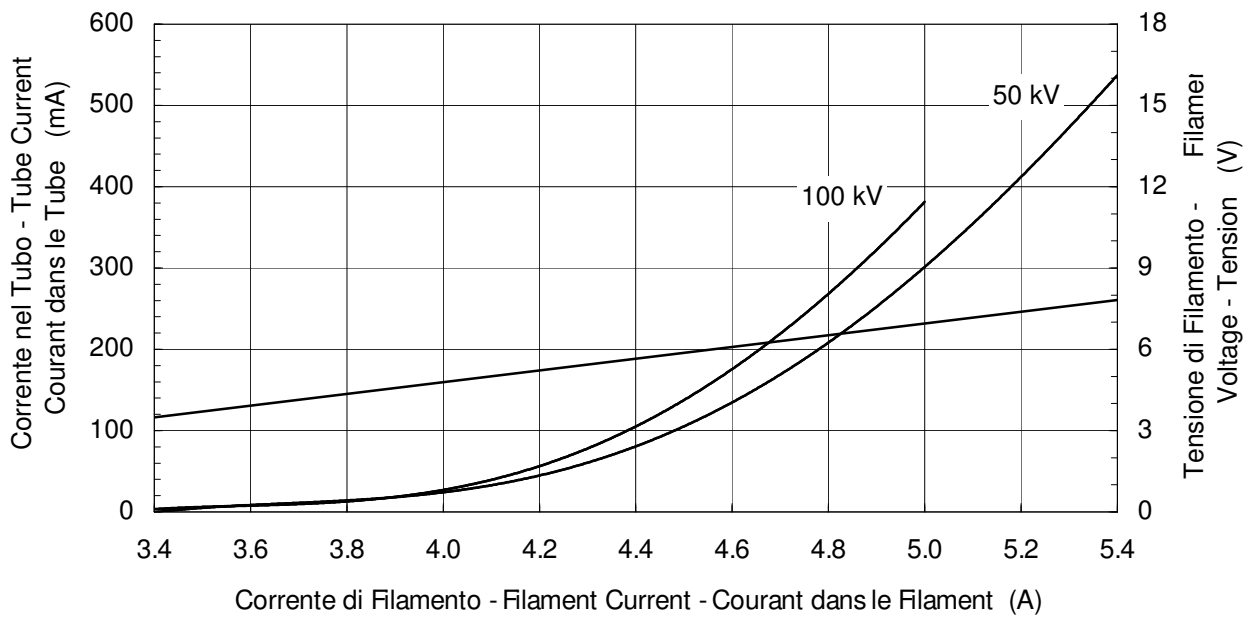
Potenza ammessa sul tubo in kW, per serie di n esposizioni, con frequenza z e durata di ogni esposizione in sec Anode input power as a function of n (N° of exposures in series), z (exp. rate per sec), the exposure time (sec) Puissance anodique en fonction de n (N° d'exp. de la séries), z (cadence d'exp. 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	36.6	35.5	34.7	34.2	33.7	33.3	32.6	32.0	31.5	31.0	30.6	30.3	29.8	29.2	28.3	5
2	36.6	35.5	34.7	34.2	33.7	33.3	32.6	31.8	30.8	29.9	29.0	28.2	27.4	26.6	25.6	
3	36.6	35.5	34.7	34.2	33.7	33.3	32.0	30.7	29.6	28.5	27.5	26.6	25.8	25.0	23.8	
4	36.6	35.5	34.7	34.2	33.4	32.7	31.2	29.8	28.6	27.5	26.4	25.5	24.6	23.7	22.6	
5	36.6	35.5	34.7	33.9	33.0	32.1	30.5	29.1	27.8	26.6	25.5	24.5	23.6	-	-	
10	36.5	35.0	33.7	32.4	31.3	30.2	28.3	26.6	-	-	-	-	-	-	-	
15	36.1	34.4	32.8	31.4	30.1	28.9	-	-	-	-	-	-	-	-	-	
30	35.4	33.1	31.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.6	35.5	34.7	34.2	33.7	33.3	32.6	31.8	30.8	29.9	29.0	28.2	27.4	26.6	25.6	10
2	36.6	35.5	34.7	34.2	33.4	32.6	31.2	29.8	28.6	27.5	26.4	25.4	24.5	23.7	22.5	
3	36.6	35.5	34.5	33.5	32.6	31.6	30.0	28.5	27.1	25.8	24.7	23.7	22.7	21.8	20.6	
4	36.6	35.3	34.1	32.9	31.8	30.8	29.0	27.4	25.9	24.6	23.4	22.4	21.4	20.5	19.3	
5	36.5	35.0	33.7	32.4	31.2	30.2	28.2	26.5	25.0	23.6	22.4	21.3	20.4	-	-	
10	35.8	33.9	32.1	30.5	29.1	27.8	25.5	23.6	-	-	-	-	-	-	-	
15	35.4	33.1	31.0	29.3	27.7	26.2	-	-	-	-	-	-	-	-	-	
30	34.4	31.4	28.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.6	35.5	34.7	34.2	33.4	32.6	31.2	29.8	28.6	27.5	26.4	25.4	24.5	23.7	22.5	20
2	36.6	35.3	34.1	32.9	31.8	30.8	29.0	27.4	25.9	24.6	23.4	22.4	21.4	20.5	19.3	
3	36.3	34.7	33.3	31.9	30.7	29.6	27.5	25.8	24.2	22.8	21.6	20.5	19.5	18.6	17.4	
4	36.1	34.3	32.6	31.2	29.8	28.6	26.4	24.5	22.9	21.5	20.2	19.1	18.1	17.2	16.0	
5	35.8	33.9	32.1	30.5	29.1	27.8	25.5	23.6	21.9	20.4	19.2	18.1	17.1	-	-	
10	35.0	32.4	30.2	28.2	26.5	25.0	22.4	20.4	-	-	-	-	-	-	-	
15	34.4	31.4	28.8	26.7	24.8	23.2	-	-	-	-	-	-	-	-	-	
30	33.1	29.3	26.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.6	35.3	34.1	32.9	31.8	30.8	29.0	27.4	25.9	24.6	23.4	22.4	21.4	20.5	19.3	40
2	36.1	34.3	32.6	31.2	29.8	28.6	26.4	24.5	22.9	21.5	20.2	19.1	18.1	17.2	16.0	
3	35.6	33.5	31.6	30.0	28.4	27.1	24.7	22.7	21.0	19.6	18.3	17.2	16.2	15.3	14.2	
4	35.3	32.9	30.8	29.0	27.4	25.9	23.4	21.4	19.7	18.2	16.9	15.8	14.9	14.0	12.9	
5	35.0	32.4	30.2	28.2	26.5	25.0	22.4	20.3	18.6	17.1	15.9	14.8	13.9	-	-	
10	33.9	30.5	27.8	25.5	23.6	21.9	19.2	17.1	-	-	-	-	-	-	-	
15	33.1	29.2	26.2	23.7	21.7	20.0	-	-	-	-	-	-	-	-	-	
30	31.4	26.7	23.2	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.3	34.7	33.3	31.9	30.7	29.6	27.5	25.8	24.2	22.8	21.6	20.5	19.5	18.6	17.4	60
2	35.6	33.5	31.6	30.0	28.4	27.1	24.7	22.7	21.0	19.6	18.3	17.2	16.2	15.3	14.2	
3	35.1	32.6	30.5	28.6	26.9	25.4	22.9	20.8	19.1	17.6	16.4	15.3	14.3	13.5	12.4	
4	34.7	31.9	29.6	27.5	25.8	24.2	21.6	19.5	17.7	16.3	15.1	14.0	13.1	12.3	11.2	
5	34.4	31.4	28.8	26.7	24.8	23.2	20.5	18.4	16.7	15.3	14.1	13.0	12.1	-	-	
10	33.1	29.2	26.2	23.7	21.7	20.0	17.2	15.2	-	-	-	-	-	-	-	
15	32.1	27.8	24.5	21.9	19.8	18.1	-	-	-	-	-	-	-	-	-	
30	30.2	25.0	21.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	36.1	34.3	32.6	31.2	29.8	28.6	26.4	24.5	22.9	21.5	20.2	19.1	18.0	16.4	14.4	80
2	35.3	32.9	30.8	29.0	27.4	25.9	23.4	21.4	19.7	18.2	16.9	15.8	14.9	14.0	12.9	
3	34.7	31.9	29.6	27.5	25.8	24.2	21.6	19.5	17.7	16.3	15.1	14.0	13.1	12.3	11.2	
4	34.3	31.2	28.6	26.4	24.5	22.9	20.2	18.1	16.4	15.0	13.8	12.8	11.9	11.1	10.1	
5	33.9	30.5	27.8	25.5	23.5	21.9	19.2	17.1	15.4	14.0	12.8	11.8	11.0	-	-	
10	32.4	28.2	25.0	22.4	20.3	18.6	15.9	13.9	-	-	-	-	-	-	-	
15	31.4	26.7	23.2	20.5	18.4	16.7	-	-	-	-	-	-	-	-	-	
30	29.2	23.7	20.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	35.8	33.9	32.1	30.5	29.1	27.8	25.5	23.5	21.9	20.4	18.9	16.8	15.1	13.8	12.1	100
2	35.0	32.4	30.2	28.2	26.5	25.0	22.4	20.3	18.6	17.1	15.9	14.8	13.4	12.1	10.7	
3	34.4	31.4	28.8	26.7	24.8	23.2	20.5	18.4	16.7	15.3	14.1	13.0	12.1	11.4	10.2	
4	33.9	30.5	27.8	25.5	23.5	21.9	19.2	17.1	15.4	14.0	12.8	11.8	11.0	10.3	9.3	
5	33.4	29.8	26.9	24.5	22.5	20.8	18.1	16.0	14.3	13.0	11.9	10.9	10.1	-	-	
10	31.8	27.4	24.0	21.4	19.3	17.5	14.9	12.9	-	-	-	-	-	-	-	
15	30.7	25.8	22.2	19.5	17.4	15.7	13.1	11.2	-	-	-	-	-	-	-	
30	28.5	22.7	18.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	35.4	33.1	31.0	29.2	27.6	26.2	23.7	21.7	18.8	16.1	14.1	12.5	11.3	10.3	9.0	150
2	34.4	31.4	28.8	26.7	24.8	23.2	20.5	18.4	15.8	13.6	11.9	10.6	9.5	8.6	7.6	
3	33.6	30.2	27.3	25.0	23.0	21.3	18.6	16.5	14.8	12.7	11.1	9.9	8.9	8.1	7.1	
4	33.1	29.2	26.2	23.7	21.7	20.0	17.2	15.2	13.5	12.2	10.8	9.6	8.6	7.8	6.9	
5	32.6	28.4	25.3	22.7	20.6	18.9	16.2	14.2	12.6	11.3	10.3	9.4	8.4	-	-	
10	30.7	25.8	22.2	19.5	17.4	15.7	13.1	11.2	-	-	-	-	-	-	-	
15	29.4	24.0	20.3	17.5	15.5	13.8	-	-	-	-	-	-	-	-	-	
30	26.9	20.8	17.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	34.4	31.4	28.8	26.7	24.8	23.2	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.8	5.9	300
2	33.1	29.2	26.2	23.7	21.7	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6	5.1	4.5	
3	32.1	27.8	24.5	21.9	19.8	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.0	
4	31.4	26.7	23.2	20.5	18.4	15.8	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3	3.8	
5	30.7	25.8	22.2	19.5	17.4	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.6	-	-	
10	28.4	22.7	18.9	16.2	14.2	12.6	10.3	8.4	-	-	-	-	-	-	-	
15	26.9	20.8	17.0	14.3	12.4	10.9	-	-	-	-	-	-	-	-	-	
30	24.0	17.5	13.8	-	-	-	-	-	-	-	-	-	-	-	-	

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

■ 1.2 - 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 série), 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	96.1	91.9	89.3	87.3	85.7	84.3	81.9	80.0	78.3	76.9	75.5	74.4	73.0	71.0	68.2	5
2	96.1	91.9	89.3	87.3	85.7	84.3	81.9	79.5	76.2	73.2	70.4	67.8	65.4	63.2	60.1	
3	96.1	91.9	89.3	87.3	85.7	84.3	79.9	75.8	72.2	68.9	65.9	63.1	60.6	58.2	55.0	
4	96.1	91.9	89.3	87.3	84.9	82.2	77.3	73.0	69.1	65.7	62.5	59.7	57.0	54.7	51.4	
5	96.1	91.9	89.3	86.4	83.3	80.4	75.2	70.7	66.6	63.0	59.8	56.9	54.3	-	-	
10	95.5	90.3	85.6	81.4	77.6	74.1	68.0	62.9	-	-	-	-	-	-	-	
15	94.3	88.2	82.8	78.0	73.8	70.0	-	-	-	-	-	-	-	-	-	
30	91.7	83.8	77.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	96.1	91.9	89.3	87.3	85.7	84.3	81.9	79.5	76.2	73.2	70.4	67.8	65.4	63.1	60.0	10
2	96.1	91.9	89.3	87.3	84.8	82.2	77.3	73.0	69.1	65.6	62.5	59.6	57.0	54.6	51.4	
3	96.1	91.9	88.7	85.1	81.9	78.8	73.4	68.6	64.5	60.8	57.5	54.6	51.9	49.5	46.3	
4	96.1	91.3	87.0	83.1	79.5	76.2	70.4	65.4	61.1	57.3	53.9	50.9	48.3	45.9	42.7	
5	95.5	90.3	85.6	81.4	77.5	74.0	67.9	62.8	58.3	54.5	51.1	48.1	45.5	-	-	
10	93.3	86.4	80.4	75.2	70.7	66.6	59.8	54.3	-	-	-	-	-	-	-	
15	91.6	83.6	76.9	71.1	66.2	61.9	-	-	-	-	-	-	-	-	-	
30	88.2	78.0	70.0	-	-	-	-	-	-	-	-	-	-	-	-	
1	96.1	91.9	89.3	87.3	84.8	82.2	77.3	73.0	69.1	65.6	62.5	59.6	57.0	54.6	49.1	20
2	96.1	91.3	87.0	83.1	79.5	76.2	70.4	65.4	61.0	57.2	53.9	50.9	48.2	45.8	42.7	
3	95.0	89.3	84.3	79.8	75.8	72.2	65.8	60.5	56.0	52.1	48.8	45.8	43.2	40.8	37.7	
4	94.0	87.7	82.2	77.3	73.0	69.1	62.5	57.0	52.4	48.5	45.1	42.2	39.6	37.4	34.4	
5	93.2	86.3	80.4	75.2	70.6	66.6	59.8	54.2	49.6	45.7	42.4	39.5	37.0	-	-	
10	90.3	81.4	74.0	67.9	62.8	58.3	51.1	45.5	-	-	-	-	-	-	-	
15	88.1	77.9	69.8	63.3	57.8	53.3	-	-	-	-	-	-	-	-	-	
30	83.6	71.1	61.9	-	-	-	-	-	-	-	-	-	-	-	-	
1	96.1	91.3	87.0	83.1	79.5	76.2	70.4	65.0	54.2	46.4	40.6	36.1	32.5	29.5	26.0	40
2	94.0	87.7	82.2	77.3	73.0	69.1	62.5	57.0	51.2	43.9	38.4	34.1	30.7	27.9	24.6	
3	92.5	85.1	78.8	73.4	68.6	64.5	57.5	51.9	47.3	43.0	37.7	33.5	30.1	27.4	24.1	
4	91.3	83.1	76.2	70.4	65.4	61.0	53.9	48.2	43.7	39.9	36.7	33.1	29.8	27.1	23.9	
5	90.2	81.3	74.0	67.9	62.7	58.3	51.1	45.4	40.9	37.2	34.1	31.5	29.3	-	-	
10	86.3	75.2	66.6	59.8	54.2	49.6	42.4	37.0	-	-	-	-	-	-	-	
15	83.6	71.1	61.8	54.7	49.1	44.5	-	-	-	-	-	-	-	-	-	
30	77.9	63.3	53.3	-	-	-	-	-	-	-	-	-	-	-	-	
1	95.0	89.3	84.3	79.8	75.8	72.2	57.1	45.7	38.1	32.7	28.6	25.4	22.9	20.8	18.3	60
2	92.5	85.1	78.8	73.4	68.6	64.5	52.7	42.1	35.1	30.1	26.3	23.4	21.1	19.2	16.9	
3	90.8	82.2	75.1	69.1	64.0	59.6	51.2	41.0	34.1	29.3	25.6	22.8	20.5	18.6	16.4	
4	89.3	79.8	72.2	65.8	60.5	56.0	48.8	40.4	33.6	28.8	25.2	22.4	20.2	18.3	16.1	
5	88.1	77.9	69.8	63.2	57.8	53.2	45.9	40.0	33.3	28.6	25.0	22.2	20.0	-	-	
10	83.5	71.1	61.8	54.7	49.1	44.5	37.5	32.4	-	-	-	-	-	-	-	
15	80.4	66.6	56.8	49.6	44.0	39.5	-	-	-	-	-	-	-	-	-	
30	74.0	58.3	48.1	-	-	-	-	-	-	-	-	-	-	-	-	
1	94.0	87.7	82.2	77.3	72.1	60.1	45.1	36.1	30.1	25.8	22.5	20.0	18.0	16.4	14.4	80
2	91.3	83.1	76.2	70.4	65.0	54.2	40.6	32.5	27.1	23.2	20.3	18.1	16.3	14.8	13.0	
3	89.3	79.8	72.2	65.8	60.5	52.2	39.1	31.3	26.1	22.4	19.6	17.4	15.7	14.2	12.5	
4	87.7	77.3	69.1	62.5	57.0	51.2	38.4	30.7	25.6	21.9	19.2	17.1	15.4	14.0	12.3	
5	86.3	75.2	66.6	59.7	54.2	49.6	38.0	30.4	25.3	21.7	19.0	16.9	15.2	-	-	
10	81.3	67.9	58.3	51.1	45.4	40.9	34.1	29.3	-	-	-	-	-	-	-	
15	77.9	63.2	53.2	46.0	40.4	36.1	-	-	-	-	-	-	-	-	-	
30	71.1	54.7	44.5	-	-	-	-	-	-	-	-	-	-	-	-	
1	93.2	86.3	80.4	75.2	60.6	50.5	37.9	30.3	25.2	21.6	18.9	16.8	15.1	13.8	12.1	100
2	90.2	81.3	74.0	66.8	53.4	44.5	33.4	26.7	22.3	19.1	16.7	14.8	13.4	12.1	10.7	
3	88.1	77.9	69.8	63.2	51.1	42.5	31.9	25.5	21.3	18.2	16.0	14.2	12.8	11.6	10.2	
4	86.3	75.2	66.6	59.7	49.9	41.6	31.2	24.9	20.8	17.8	15.6	13.9	12.5	11.3	10.0	
5	84.8	73.0	64.0	57.0	49.1	41.0	30.7	24.6	20.5	17.6	15.4	13.7	12.3	-	-	
10	79.5	65.4	55.5	48.2	42.7	38.2	29.8	23.9	-	-	-	-	-	-	-	
15	75.8	60.5	50.4	43.2	37.7	33.5	-	-	-	-	-	-	-	-	-	
30	68.6	51.9	41.7	-	-	-	-	-	-	-	-	-	-	-	-	
1	91.6	83.5	75.2	56.4	45.1	37.6	28.2	22.6	18.8	16.1	14.1	12.5	11.3	10.3	9.0	150
2	88.1	77.9	63.3	47.5	38.0	31.7	23.8	19.0	15.8	13.6	11.9	10.6	9.5	8.6	7.6	
3	85.6	74.0	59.4	44.5	35.6	29.7	22.3	17.8	14.8	12.7	11.1	9.9	8.9	8.1	7.1	
4	83.5	71.1	57.4	43.0	34.4	28.7	21.5	17.2	14.3	12.3	10.8	9.6	8.6	7.8	6.9	
5	81.8	68.6	56.2	42.1	33.7	28.1	21.1	16.9	14.0	12.0	10.5	9.4	8.4	-	-	
10	75.8	60.5	50.4	40.4	32.3	26.9	20.2	16.1	-	-	-	-	-	-	-	
15	71.7	55.5	45.3	38.2	31.8	26.5	-	-	-	-	-	-	-	-	-	
30	64.0	46.8	36.8	-	-	-	-	-	-	-	-	-	-	-	-	
1	88.1	74.3	49.5	37.1	29.7	24.8	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.8	5.9	300
2	83.5	56.4	37.6	28.2	22.6	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6	5.1	4.5	
3	80.4	50.5	33.7	25.2	20.2	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.0	
4	77.9	47.5	31.7	23.8	19.0	15.8	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3	3.8	
5	75.8	45.7	30.5	22.9	18.3	15.2	11.4	9.1	7.6	6.5	5.7	5.1	4.6	-	-	
10	68.6	42.1	28.1	21.1	16.9	14.0	10.5	8.4	-	-	-	-	-	-	-	
15	64.0	41.0	27.3	20.5	16.4	13.7	-	-	-	-	-	-	-	-	-	
30	55.5	38.2	26.5	-	-	-	-	-	-	-	-	-	-	-	-	

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



Caratteristica di emissione del catodo
Cathode emission characteristic
Caractéristique d'émission de la cathode
■ 1.2 - 3 ~ - (± 0.2 A)

