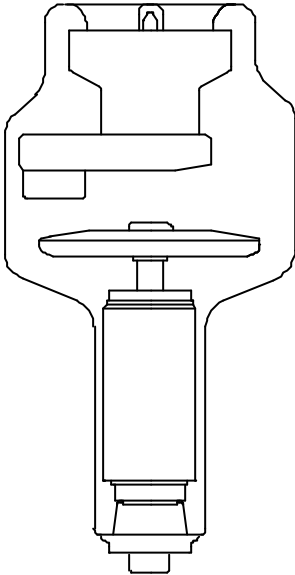




Documentazione Tubo a raggi X Tube Documentation Documentation du Tube

RTM 103 MAX 0.3/0.6



**Tubo a raggi X ad anodo rotante per sostituzione dell'unità
GE CT Max®**

® Marchio registrato della GE Company

X-Ray Tube especially designed for reloading of GE CT Max®

® Trade Mark of GE Company

**Tube à rayons X spécialement conçu pour CT scanner GE CT
Max®**

® Marque déposée de GE Company

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 |
|--|---------------------------------|--|--|
| 103S36 | 0 | 12.11.99 | italiano / italian / italien |

I.A.E Spa

via Fabio Filzi, 53 - 20032 CORMANO (MI) Italy
Tel: ++39-0266303255 Fax: ++39-026152544
<http://www.iae.it> e-mail: iaexray@iae.it






Sommario - Table of contents - Table des matières


Sommario - Table of contents - Table des matières..... 2


Caratteristiche - Specifications - Spécifications 3


Dimensioni - Dimension - Dimensions 4


Curve di riscaldamento e raffreddamento dell'anodo Anode heating and cooling curves Courbes d'échauffement et de refroidissement de l'anode..... 4


CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE  0.3 - 1 ~ - 3000 min⁻¹ 5


CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE  0.6 - 1 ~ - 3000 min⁻¹ 5


CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE  0.3 - 3 ~ - 3000 min⁻¹ 6


CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE  0.6 - 3 ~ - 3000 min⁻¹ 6


CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE  0.3 - 1 ~ - 10000 min⁻¹ 7


CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE  0.6 - 1 ~ - 10000 min⁻¹ 7


CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE  0.3 - 3 ~ - 10000 min⁻¹ 8


CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE  0.6 - 3 ~ - 10000 min⁻¹ 8


Abaco per carichi in serie - Serial load rating - Abaque de charges successives  0.3 - 1 ~ - 3000 min⁻¹ 9


Abaco per carichi in serie - Serial load rating - Abaque de charges successives  0.6 - 1 ~ - 3000 min⁻¹ 10


Abaco per carichi in serie - Serial load rating - Abaque de charges successives  0.3 - 3 ~ - 3000 min⁻¹ 11


Abaco per carichi in serie - Serial load rating - Abaque de charges successives  0.6 - 3 ~ - 3000 min⁻¹ 12


Abaco per carichi in serie - Serial load rating - Abaque de charges successives  0.3 - 1 ~ - 10000 min⁻¹ 13

Abaco per carichi in serie - Serial load rating - Abaque de charges successives  0.6 - 1 ~ - 10000 min⁻¹ 14

Abaco per carichi in serie - Serial load rating - Abaque de charges successives  0.3 - 3 ~ - 10000 min⁻¹ 15





Abaco per carichi in serie - Serial load rating - Abaque de charges successives  0.6 - 3 ~ - 10000 min⁻¹ 16

Caratteristica di emissione del catodo Cathode emission characteristic Caractéristique d'émission de la cathode  0.3 - 3 ~ -
 (± 0.2 A)..... 17

Caratteristica di emissione del catodo Cathode emission characteristic Caractéristique d'émission de la cathode  0.6 - 3 ~ -
 (± 0.2 A)..... 17



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 |  10 kW  35 kW | 18 kW 60 kW | (IEC 613, EN 60613) |
| Diametro anodico Anode diameter Diamètre de l'anode | 102 mm | | |
| Materiale anodico Anode material Materiau de l'anode | RTM | | |
| Angolo anodico Anode angle Pente de l'anode | 7 ° | | |
| Campo di radiazione Radiation field Champ de rayonnement | a 70 cm 17 cm a 100 cm 25 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 | 300 kJ | 400 kHU | |
| Dissipazione termica continua massima Maximum continuous heat dissipation Dissipation thermique continue maximale | 1000 W | | |
| 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. | 5.5 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 calculées pour:

Potenza anodica di equilibrio termico

Equivalent anode input power

Puissance anodique d'équilibre thermique

300 W =

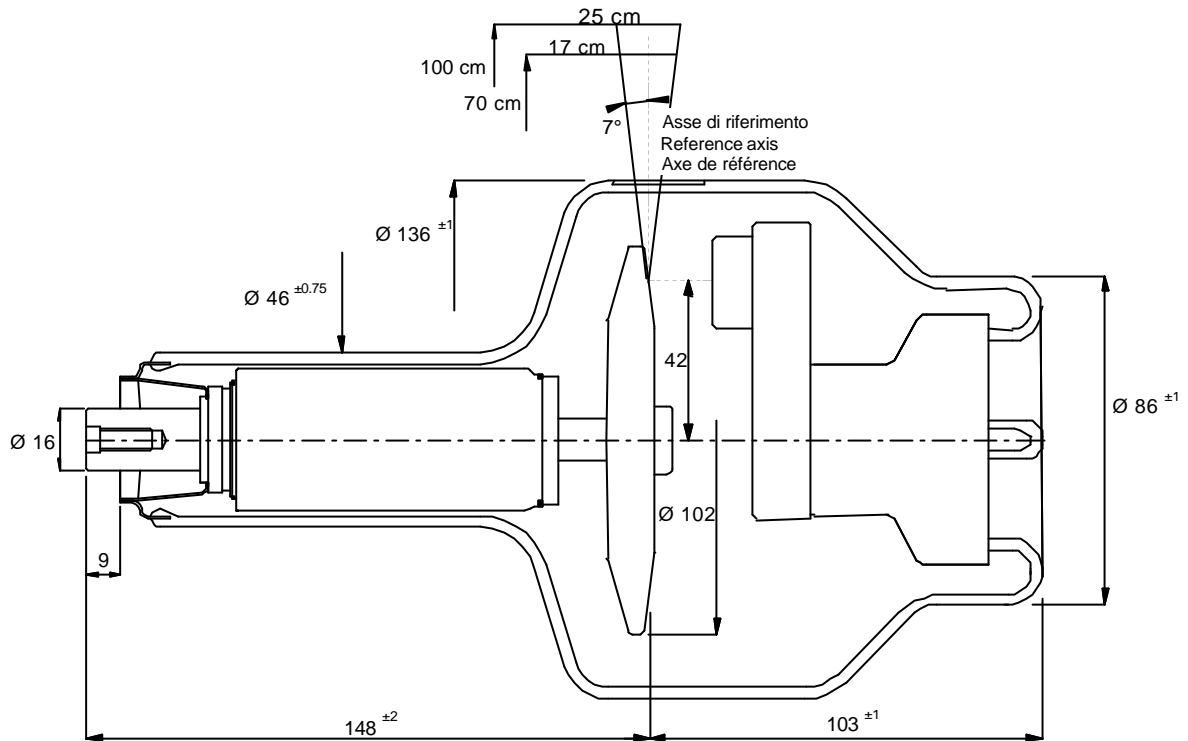
% della capacità termica anodica

% of maximum anode heat content

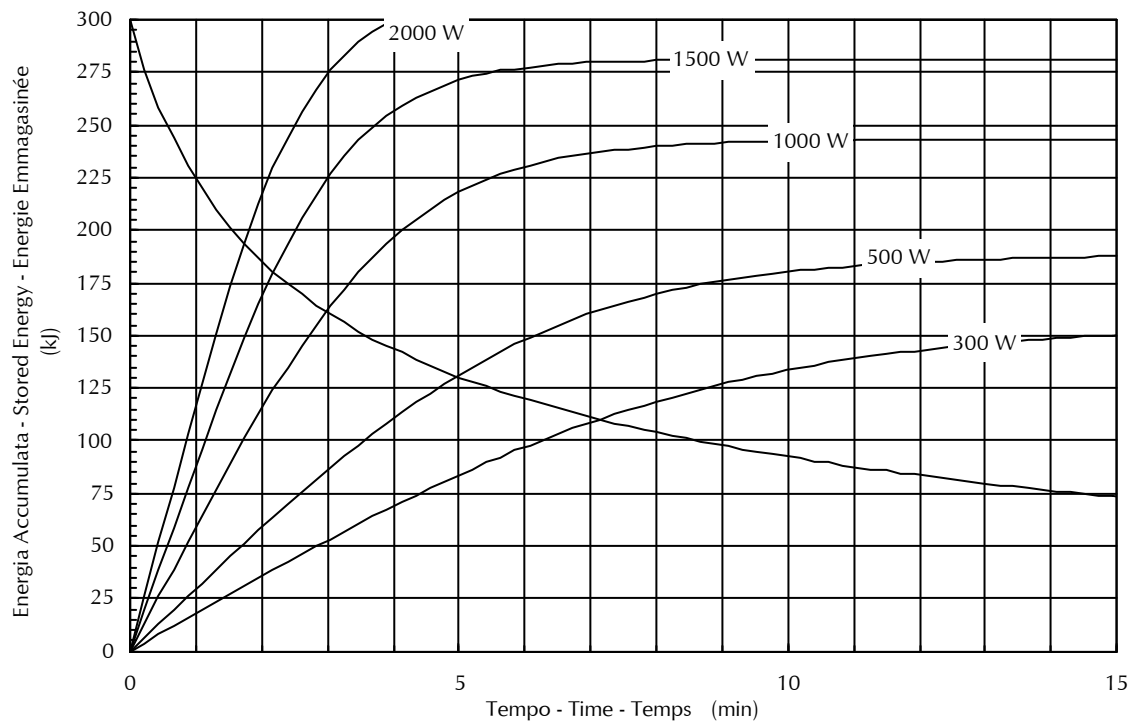
% de chaleur max. accumulée dans l'anode

52%

Dimensioni - Dimension - Dimensions



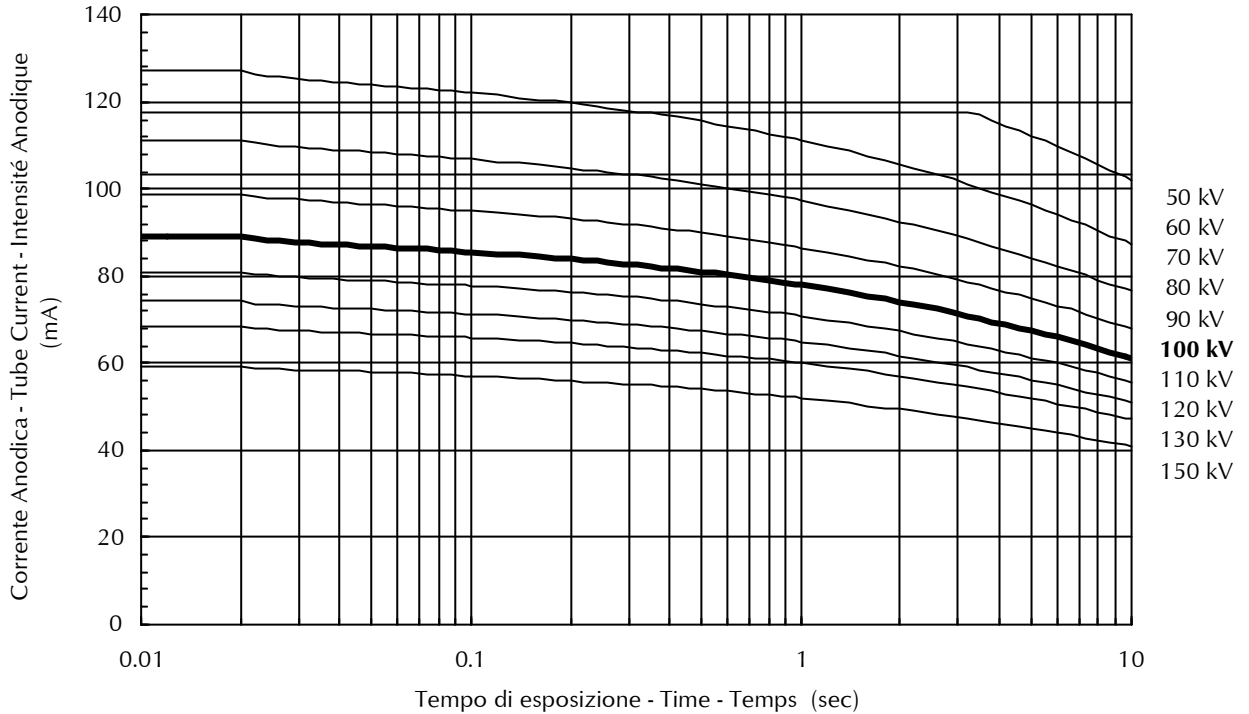
Curve di riscaldamento e raffreddamento dell'anodo Anode heating and cooling curves Courbes d'échauffement et de refroidissement de l'anode





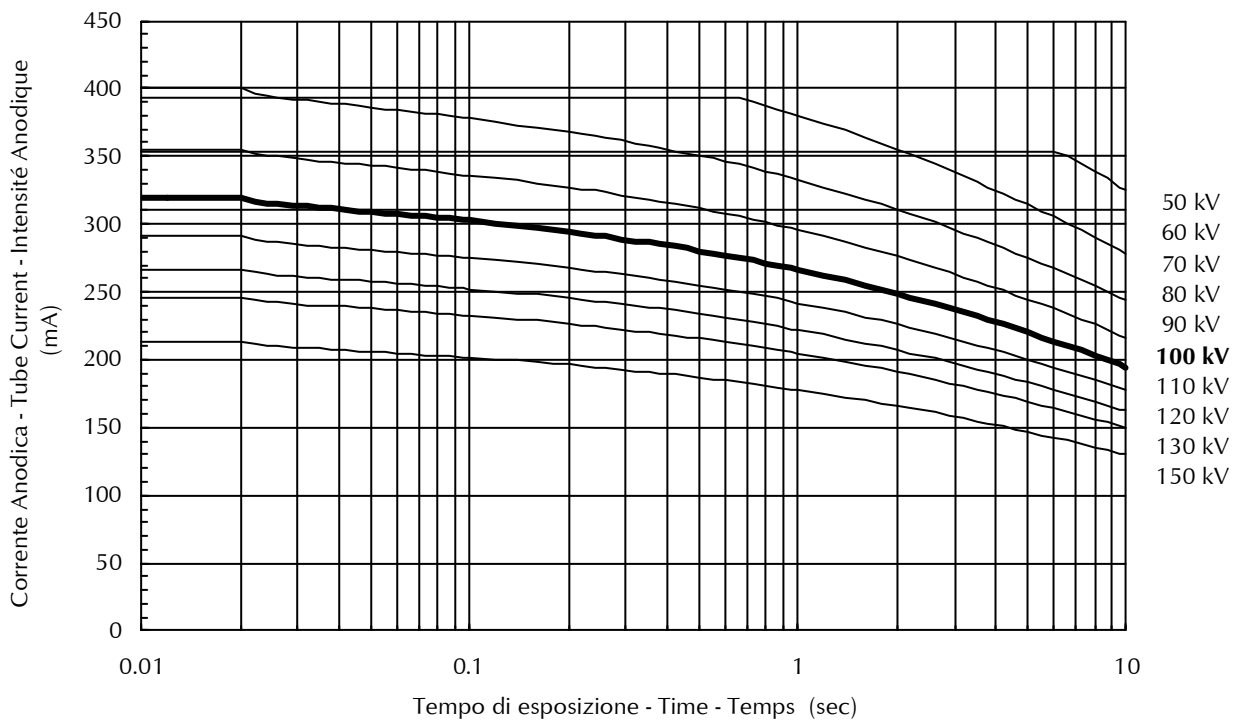
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.3 - 1 ~ - 3000 min⁻¹



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

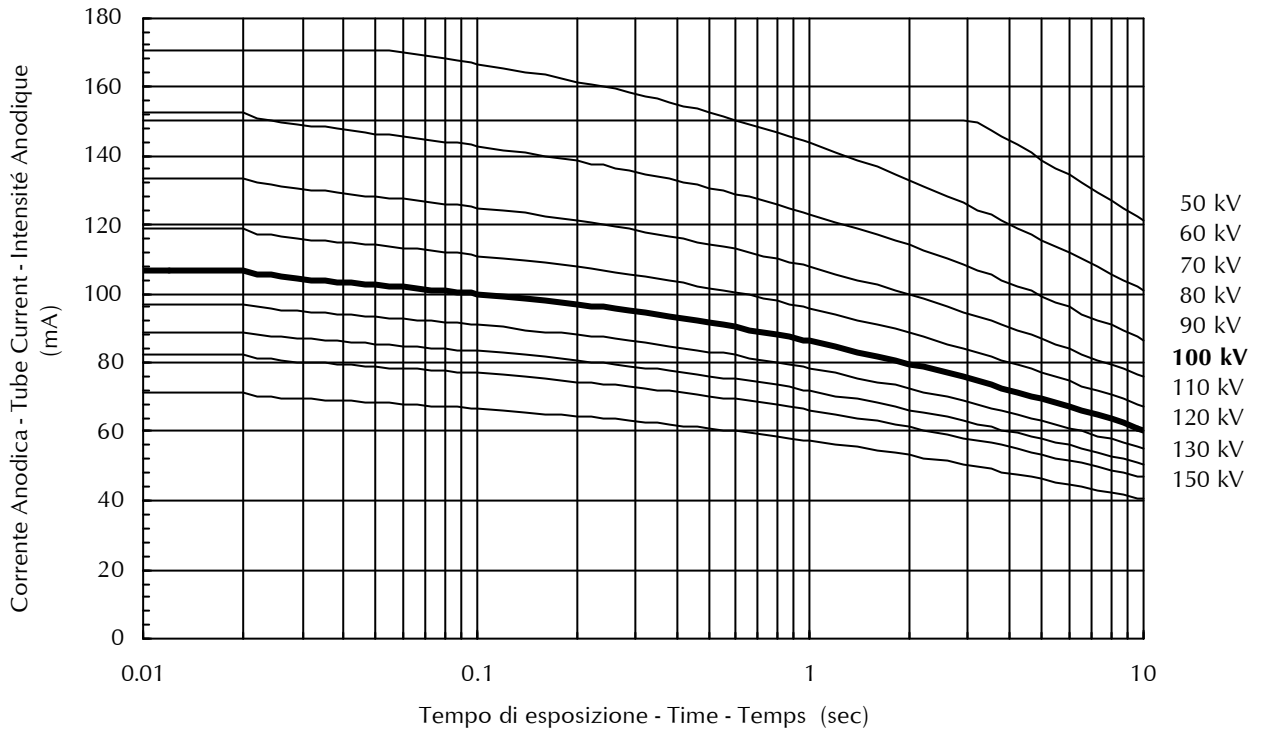
■ 0.6 - 1 ~ - 3000 min⁻¹





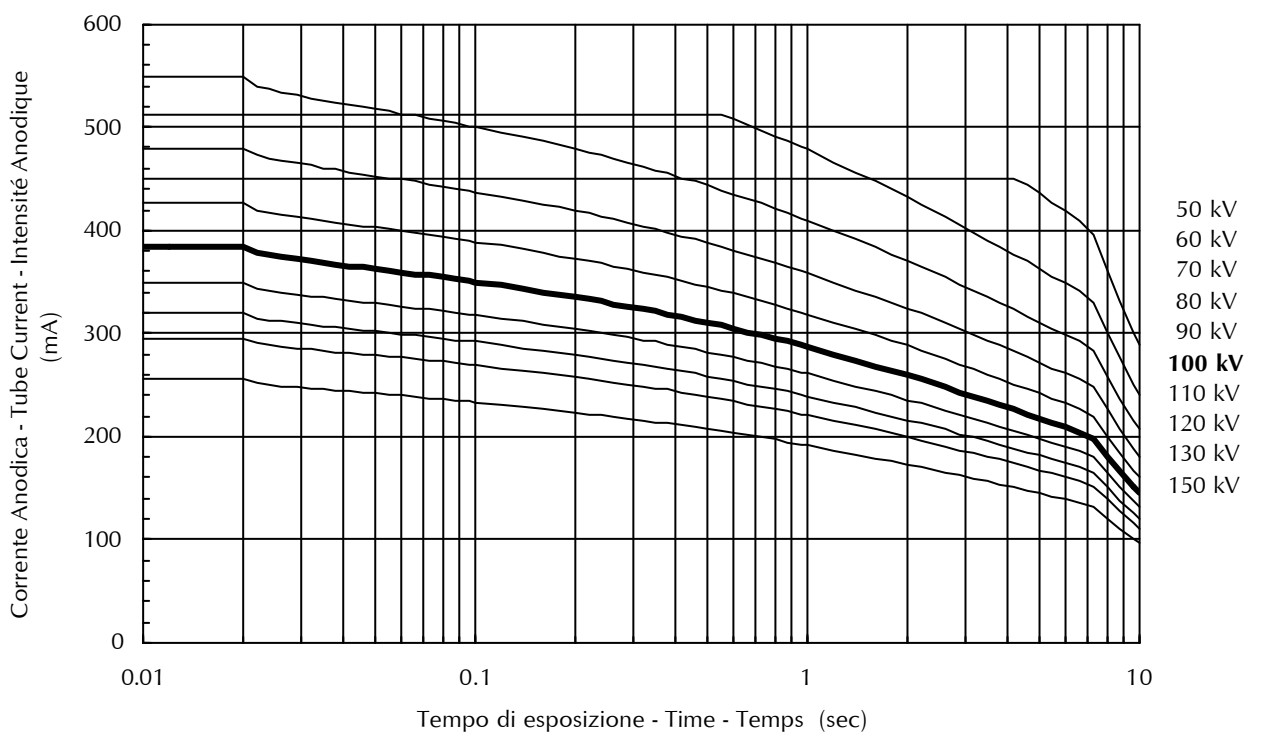
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.3 - 3 ~ - 3000 min⁻¹



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

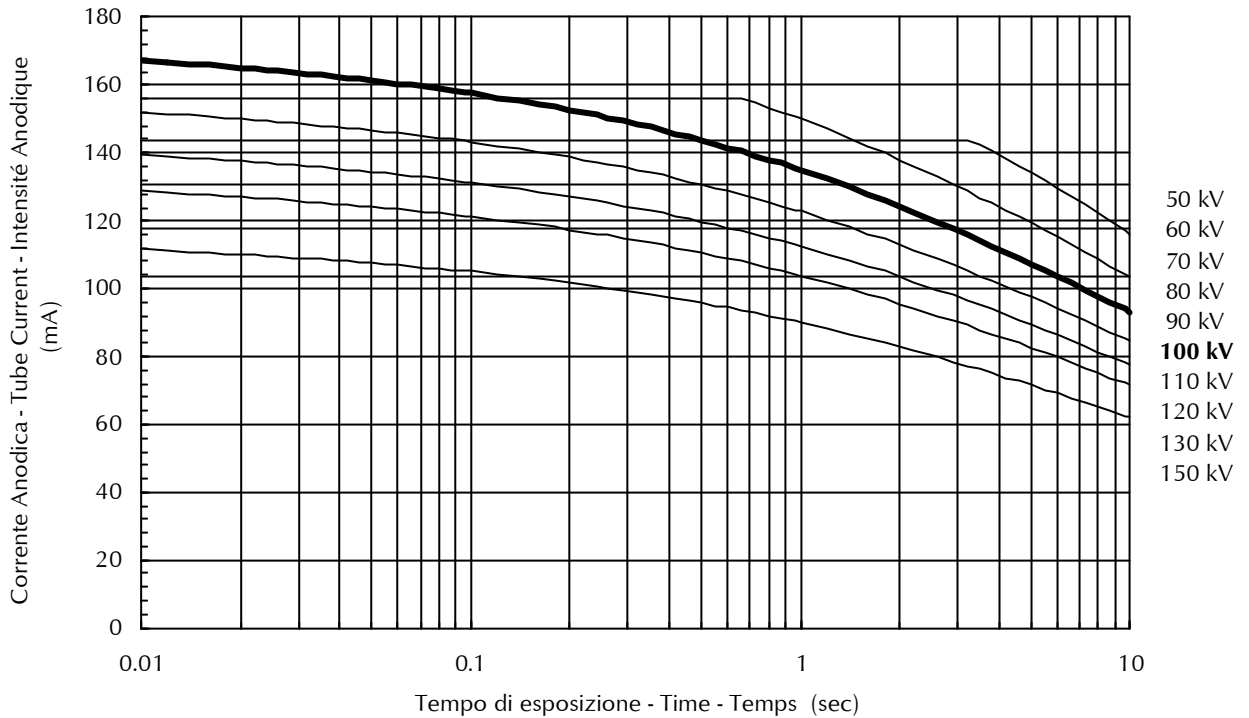
■ 0.6 - 3 ~ - 3000 min⁻¹





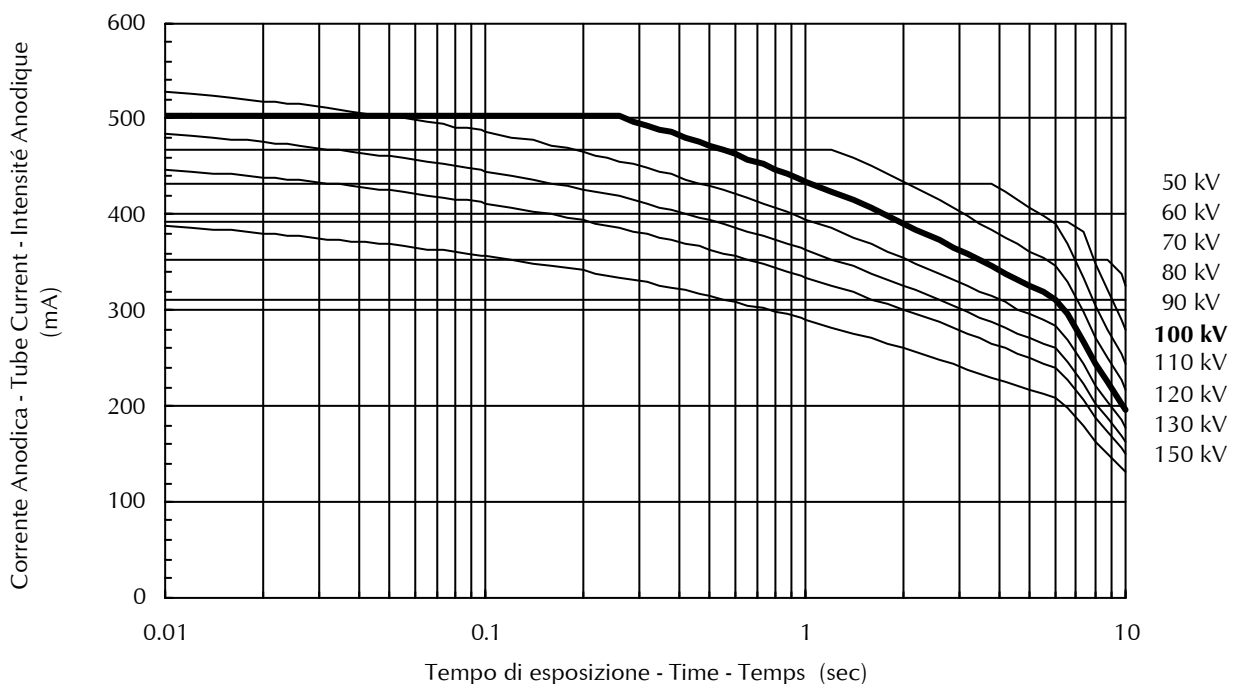
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 0.3 - 1 ~ - 10000 min⁻¹



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

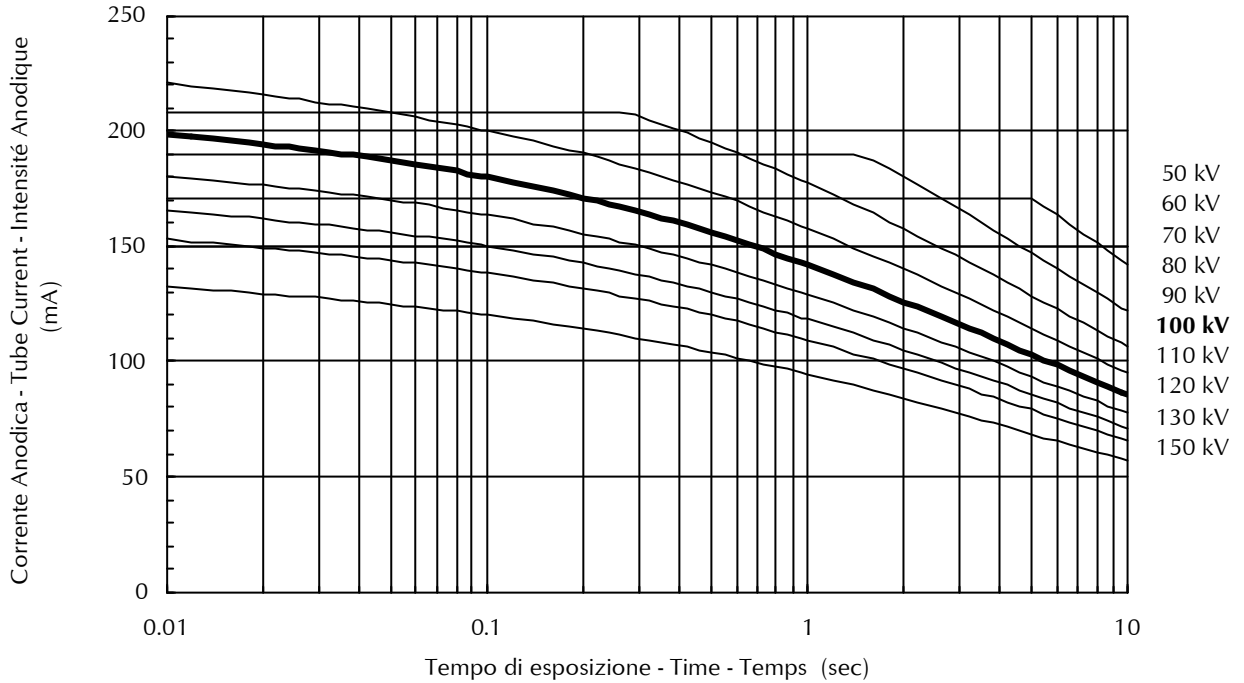
■ 0.6 - 1 ~ - 10000 min⁻¹





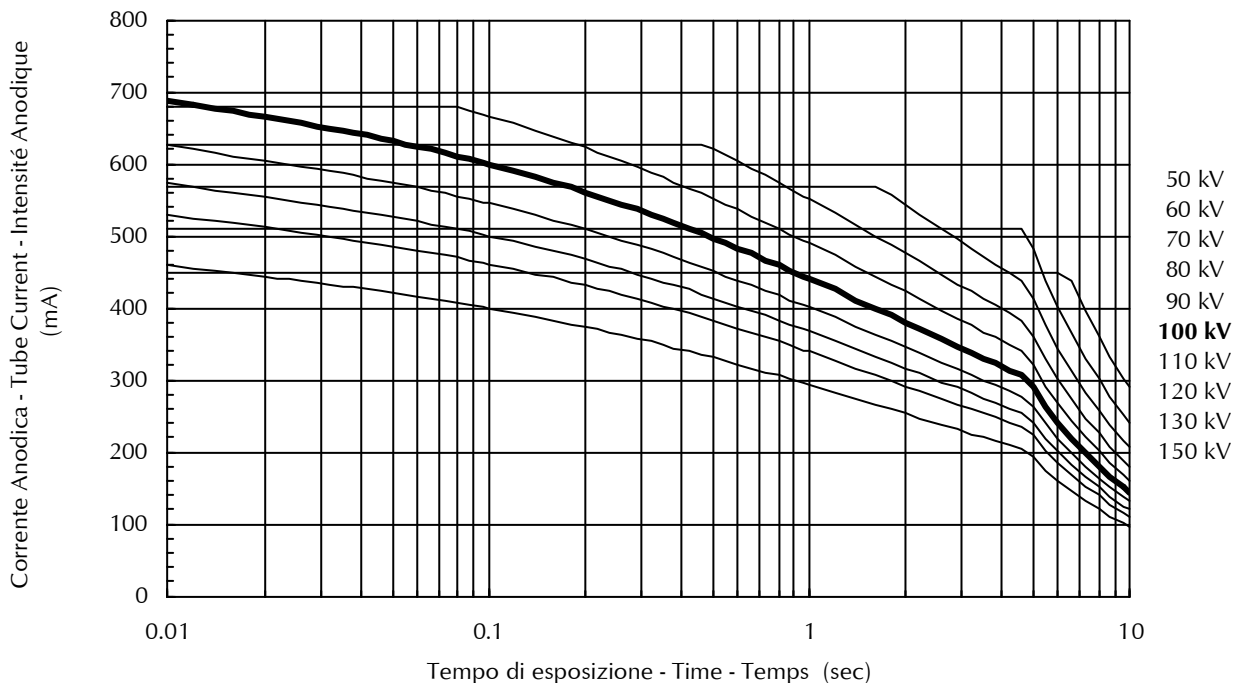
CURVE DI CARICO SINGOLO - SINGLE LOAD RATING - ABAQUE DE CHARGE UNIQUE

▣ 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 | 7.1 | 7.1 | 7.0 | 6.9 | 6.9 | 6.8 | 6.8 | 6.7 | 6.7 | 6.7 | 6.6 | 6.6 | 6.5 | 6.5 | 6.4 | 5 |
| 2 | 7.0 | 7.0 | 7.0 | 6.9 | 6.9 | 6.8 | 6.8 | 6.7 | 6.6 | 6.5 | 6.5 | 6.4 | 6.3 | 6.3 | 6.1 | |
| 3 | 7.0 | 7.0 | 7.0 | 6.9 | 6.9 | 6.8 | 6.8 | 6.7 | 6.6 | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 | 6.0 | |
| 4 | 7.0 | 7.0 | 6.9 | 6.9 | 6.8 | 6.8 | 6.6 | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 | 6.0 | 6.0 | 5.8 | |
| 5 | 7.0 | 7.0 | 6.9 | 6.8 | 6.8 | 6.7 | 6.6 | 6.5 | 6.4 | 6.3 | 6.1 | 6.0 | 5.9 | - | - | |
| 10 | 7.0 | 6.9 | 6.8 | 6.7 | 6.7 | 6.6 | 6.4 | 6.3 | - | - | - | - | - | - | - | |
| 15 | 7.0 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | - | - | - | - | - | - | - | - | - | |
| 30 | 7.0 | 6.8 | 6.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 7.0 | 7.0 | 7.0 | 6.9 | 6.9 | 6.8 | 6.8 | 6.7 | 6.6 | 6.5 | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 | 10 |
| 2 | 7.0 | 7.0 | 6.9 | 6.9 | 6.8 | 6.8 | 6.6 | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 | 6.0 | 5.9 | 5.8 | |
| 3 | 7.0 | 7.0 | 6.9 | 6.8 | 6.8 | 6.7 | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 | 5.9 | 5.8 | 5.7 | 5.6 | |
| 4 | 7.0 | 6.9 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | 6.3 | 6.2 | 6.0 | 5.9 | 5.8 | 5.7 | 5.6 | 5.4 | |
| 5 | 7.0 | 6.9 | 6.8 | 6.7 | 6.7 | 6.6 | 6.4 | 6.2 | 6.1 | 5.9 | 5.8 | 5.7 | 5.6 | - | - | |
| 10 | 7.0 | 6.8 | 6.7 | 6.6 | 6.5 | 6.4 | 6.1 | 5.9 | - | - | - | - | - | - | - | |
| 15 | 7.0 | 6.8 | 6.6 | 6.5 | 6.4 | 6.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 6.9 | 6.7 | 6.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 7.0 | 7.0 | 6.9 | 6.9 | 6.8 | 6.8 | 6.6 | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 | 6.0 | 5.9 | 5.8 | 20 |
| 2 | 7.0 | 6.9 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | 6.3 | 6.2 | 6.0 | 5.9 | 5.8 | 5.7 | 5.6 | 5.4 | |
| 3 | 7.0 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | 6.3 | 6.2 | 6.0 | 5.8 | 5.7 | 5.6 | 5.4 | 5.3 | 5.1 | |
| 4 | 7.0 | 6.9 | 6.8 | 6.6 | 6.5 | 6.4 | 6.2 | 6.0 | 5.9 | 5.7 | 5.5 | 5.4 | 5.2 | 5.1 | 4.9 | |
| 5 | 7.0 | 6.8 | 6.7 | 6.6 | 6.5 | 6.4 | 6.1 | 5.9 | 5.7 | 5.6 | 5.4 | 5.2 | 5.1 | - | - | |
| 10 | 6.9 | 6.7 | 6.6 | 6.4 | 6.2 | 6.1 | 5.8 | 5.6 | - | - | - | - | - | - | - | |
| 15 | 6.9 | 6.7 | 6.5 | 6.3 | 6.1 | 5.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 6.8 | 6.5 | 6.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 7.0 | 6.9 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | 6.3 | 6.2 | 6.0 | 5.9 | 5.8 | 5.7 | 5.6 | 5.4 | 40 |
| 2 | 7.0 | 6.9 | 6.8 | 6.6 | 6.5 | 6.4 | 6.2 | 6.0 | 5.9 | 5.7 | 5.5 | 5.4 | 5.2 | 5.1 | 4.9 | |
| 3 | 7.0 | 6.8 | 6.7 | 6.5 | 6.4 | 6.3 | 6.1 | 5.8 | 5.6 | 5.4 | 5.3 | 5.1 | 4.9 | 4.8 | 4.6 | |
| 4 | 6.9 | 6.8 | 6.6 | 6.5 | 6.3 | 6.2 | 5.9 | 5.7 | 5.5 | 5.3 | 5.1 | 4.9 | 4.7 | 4.6 | 4.4 | |
| 5 | 6.9 | 6.7 | 6.6 | 6.4 | 6.2 | 6.1 | 5.8 | 5.5 | 5.3 | 5.1 | 4.9 | 4.7 | 4.5 | - | - | |
| 10 | 6.8 | 6.6 | 6.4 | 6.1 | 5.9 | 5.7 | 5.4 | 5.1 | - | - | - | - | - | - | - | |
| 15 | 6.8 | 6.5 | 6.2 | 6.0 | 5.7 | 5.5 | - | - | - | - | - | - | - | - | - | |
| 30 | 6.7 | 6.3 | 5.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 7.0 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | 6.3 | 6.2 | 6.0 | 5.8 | 5.7 | 5.6 | 5.4 | 5.3 | 5.1 | 60 |
| 2 | 7.0 | 6.8 | 6.7 | 6.5 | 6.4 | 6.3 | 6.1 | 5.8 | 5.6 | 5.4 | 5.3 | 5.1 | 4.9 | 4.8 | 4.6 | |
| 3 | 6.9 | 6.8 | 6.6 | 6.4 | 6.3 | 6.1 | 5.9 | 5.6 | 5.4 | 5.2 | 5.0 | 4.8 | 4.6 | 4.5 | 4.3 | |
| 4 | 6.9 | 6.7 | 6.5 | 6.3 | 6.2 | 6.0 | 5.7 | 5.4 | 5.2 | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | 4.0 | |
| 5 | 6.9 | 6.7 | 6.4 | 6.3 | 6.1 | 5.9 | 5.6 | 5.3 | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | - | - | |
| 10 | 6.8 | 6.5 | 6.2 | 6.0 | 5.7 | 5.5 | 5.1 | 4.8 | - | - | - | - | - | - | - | |
| 15 | 6.7 | 6.4 | 6.0 | 5.7 | 5.5 | 5.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 6.6 | 6.1 | 5.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 7.0 | 6.9 | 6.8 | 6.6 | 6.5 | 6.4 | 6.2 | 6.0 | 5.9 | 5.7 | 5.5 | 5.4 | 5.2 | 5.1 | 4.9 | 80 |
| 2 | 6.9 | 6.8 | 6.6 | 6.5 | 6.3 | 6.2 | 5.9 | 5.7 | 5.5 | 5.3 | 5.1 | 4.9 | 4.7 | 4.6 | 4.4 | |
| 3 | 6.9 | 6.7 | 6.5 | 6.3 | 6.2 | 6.0 | 5.7 | 5.4 | 5.2 | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | 4.0 | |
| 4 | 6.9 | 6.6 | 6.4 | 6.2 | 6.0 | 5.9 | 5.5 | 5.2 | 5.0 | 4.7 | 4.5 | 4.3 | 4.1 | 4.0 | 3.8 | |
| 5 | 6.8 | 6.6 | 6.4 | 6.1 | 5.9 | 5.7 | 5.4 | 5.1 | 4.8 | 4.6 | 4.3 | 4.1 | 3.9 | - | - | |
| 10 | 6.7 | 6.4 | 6.1 | 5.8 | 5.5 | 5.3 | 4.9 | 4.5 | - | - | - | - | - | - | - | |
| 15 | 6.7 | 6.3 | 5.9 | 5.6 | 5.3 | 5.0 | - | - | - | - | - | - | - | - | - | |
| 30 | 6.5 | 6.0 | 5.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 7.0 | 6.8 | 6.7 | 6.6 | 6.5 | 6.4 | 6.1 | 5.9 | 5.7 | 5.6 | 5.4 | 5.2 | 5.1 | 4.9 | 4.7 | 100 |
| 2 | 6.9 | 6.7 | 6.6 | 6.4 | 6.2 | 6.1 | 5.8 | 5.5 | 5.3 | 5.1 | 4.9 | 4.7 | 4.5 | 4.4 | 4.2 | |
| 3 | 6.9 | 6.7 | 6.4 | 6.3 | 6.1 | 5.9 | 5.6 | 5.3 | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | 4.0 | 3.8 | |
| 4 | 6.8 | 6.6 | 6.4 | 6.1 | 5.9 | 5.7 | 5.4 | 5.1 | 4.8 | 4.6 | 4.3 | 4.1 | 3.9 | 3.8 | 3.6 | |
| 5 | 6.8 | 6.5 | 6.3 | 6.0 | 5.8 | 5.6 | 5.2 | 4.9 | 4.6 | 4.4 | 4.1 | 3.9 | 3.8 | - | - | |
| 10 | 6.7 | 6.3 | 6.0 | 5.7 | 5.4 | 5.2 | 4.7 | 4.4 | - | - | - | - | - | - | - | |
| 15 | 6.6 | 6.2 | 5.8 | 5.4 | 5.1 | 4.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 6.4 | 5.8 | 5.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 7.0 | 6.8 | 6.6 | 6.5 | 6.3 | 6.2 | 5.9 | 5.7 | 5.5 | 5.3 | 5.1 | 4.9 | 4.8 | 4.6 | 4.4 | 150 |
| 2 | 6.9 | 6.7 | 6.4 | 6.3 | 6.1 | 5.9 | 5.6 | 5.3 | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | 4.0 | 3.8 | |
| 3 | 6.8 | 6.6 | 6.3 | 6.1 | 5.9 | 5.7 | 5.3 | 5.0 | 4.7 | 4.5 | 4.2 | 4.0 | 3.8 | 3.7 | 3.4 | |
| 4 | 6.8 | 6.5 | 6.2 | 5.9 | 5.7 | 5.5 | 5.1 | 4.8 | 4.5 | 4.2 | 4.0 | 3.8 | 3.6 | 3.4 | 3.2 | |
| 5 | 6.8 | 6.4 | 6.1 | 5.8 | 5.6 | 5.4 | 4.9 | 4.6 | 4.3 | 4.0 | 3.8 | 3.6 | 3.4 | - | - | |
| 10 | 6.6 | 6.2 | 5.8 | 5.4 | 5.1 | 4.9 | 4.4 | 4.0 | - | - | - | - | - | - | - | |
| 15 | 6.5 | 6.0 | 5.5 | 5.2 | 4.8 | 4.5 | - | - | - | - | - | - | - | - | - | |
| 30 | 6.3 | 5.6 | 5.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 6.9 | 6.7 | 6.4 | 6.3 | 6.1 | 5.9 | 5.6 | 5.3 | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | 4.0 | 3.8 | 300 |
| 2 | 6.8 | 6.5 | 6.2 | 5.9 | 5.7 | 5.5 | 5.1 | 4.8 | 4.5 | 4.2 | 4.0 | 3.8 | 3.6 | 3.4 | 3.0 | |
| 3 | 6.7 | 6.4 | 6.0 | 5.7 | 5.5 | 5.2 | 4.8 | 4.4 | 4.1 | 3.9 | 3.6 | 3.4 | 3.1 | 2.8 | 2.5 | |
| 4 | 6.7 | 6.3 | 5.9 | 5.6 | 5.3 | 5.0 | 4.6 | 4.2 | 3.9 | 3.6 | 3.4 | 3.1 | 2.8 | 2.6 | 2.3 | |
| 5 | 6.6 | 6.2 | 5.8 | 5.4 | 5.1 | 4.9 | 4.4 | 4.0 | 3.7 | 3.4 | 3.2 | 2.9 | 2.6 | - | - | |
| 10 | 6.4 | 5.8 | 5.4 | 4.9 | 4.6 | 4.3 | 3.8 | 3.4 | - | - | - | - | - | - | - | |
| 15 | 6.3 | 5.6 | 5.1 | 4.6 | 4.3 | 3.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 6.0 | 5.2 | 4.5 | - | - | - | - | - | - | - | - | - | - | - | - | |



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 | 25.3 | 25.3 | 24.9 | 24.6 | 24.4 | 24.2 | 23.9 | 23.7 | 23.5 | 23.3 | 23.1 | 23.0 | 22.7 | 22.5 | 22.1 | 5 |
| 2 | 25.1 | 25.1 | 24.9 | 24.6 | 24.4 | 24.2 | 23.9 | 23.5 | 23.1 | 22.7 | 22.4 | 22.0 | 21.7 | 21.4 | 20.9 | |
| 3 | 25.0 | 25.0 | 24.8 | 24.5 | 24.3 | 24.0 | 23.5 | 23.1 | 22.6 | 22.2 | 21.8 | 21.4 | 21.0 | 20.6 | 20.1 | |
| 4 | 25.0 | 25.0 | 24.7 | 24.4 | 24.1 | 23.8 | 23.2 | 22.7 | 22.2 | 21.7 | 21.3 | 20.9 | 20.4 | 20.0 | 19.5 | |
| 5 | 24.9 | 24.9 | 24.5 | 24.2 | 23.9 | 23.6 | 23.0 | 22.4 | 21.9 | 21.4 | 20.9 | 20.4 | 20.0 | - | - | |
| 10 | 24.9 | 24.6 | 24.2 | 23.7 | 23.3 | 22.9 | 22.1 | 21.4 | - | - | - | - | - | - | - | |
| 15 | 24.9 | 24.4 | 23.9 | 23.4 | 22.9 | 22.4 | - | - | - | - | - | - | - | - | - | |
| 30 | 24.8 | 24.0 | 23.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 25.1 | 25.1 | 24.9 | 24.6 | 24.4 | 24.2 | 23.9 | 23.5 | 23.1 | 22.7 | 22.4 | 22.0 | 21.7 | 21.4 | 20.9 | 10 |
| 2 | 25.0 | 25.0 | 24.6 | 24.3 | 24.1 | 23.8 | 23.2 | 22.7 | 22.2 | 21.7 | 21.3 | 20.8 | 20.4 | 20.0 | 19.4 | |
| 3 | 24.9 | 24.8 | 24.4 | 24.1 | 23.7 | 23.4 | 22.8 | 22.1 | 21.6 | 21.0 | 20.5 | 20.0 | 19.5 | 19.1 | 18.4 | |
| 4 | 24.9 | 24.7 | 24.3 | 23.9 | 23.5 | 23.1 | 22.4 | 21.7 | 21.1 | 20.5 | 19.9 | 19.3 | 18.8 | 18.4 | 17.7 | |
| 5 | 24.9 | 24.6 | 24.1 | 23.7 | 23.3 | 22.8 | 22.1 | 21.3 | 20.6 | 20.0 | 19.4 | 18.8 | 18.3 | - | - | |
| 10 | 24.9 | 24.2 | 23.6 | 23.0 | 22.4 | 21.9 | 20.9 | 20.0 | - | - | - | - | - | - | - | |
| 15 | 24.7 | 23.9 | 23.2 | 22.5 | 21.8 | 21.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 24.4 | 23.4 | 22.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 25.0 | 25.0 | 24.6 | 24.3 | 24.1 | 23.8 | 23.2 | 22.7 | 22.2 | 21.7 | 21.3 | 20.8 | 20.4 | 20.0 | 19.4 | 20 |
| 2 | 24.9 | 24.7 | 24.3 | 23.9 | 23.5 | 23.1 | 22.4 | 21.7 | 21.0 | 20.4 | 19.9 | 19.3 | 18.8 | 18.3 | 17.7 | |
| 3 | 24.9 | 24.5 | 24.0 | 23.5 | 23.1 | 22.6 | 21.8 | 21.0 | 20.2 | 19.6 | 18.9 | 18.3 | 17.8 | 17.2 | 16.5 | |
| 4 | 24.9 | 24.3 | 23.8 | 23.2 | 22.7 | 22.2 | 21.3 | 20.4 | 19.6 | 18.9 | 18.2 | 17.6 | 17.0 | 16.4 | 15.7 | |
| 5 | 24.9 | 24.2 | 23.6 | 23.0 | 22.4 | 21.9 | 20.9 | 19.9 | 19.1 | 18.3 | 17.6 | 16.9 | 16.3 | - | - | |
| 10 | 24.6 | 23.7 | 22.8 | 22.1 | 21.3 | 20.6 | 19.4 | 18.3 | - | - | - | - | - | - | - | |
| 15 | 24.4 | 23.3 | 22.3 | 21.4 | 20.6 | 19.8 | - | - | - | - | - | - | - | - | - | |
| 30 | 23.9 | 22.5 | 21.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 24.9 | 24.7 | 24.3 | 23.9 | 23.5 | 23.1 | 22.4 | 21.7 | 21.0 | 20.4 | 19.9 | 19.3 | 18.0 | 16.4 | 14.4 | 40 |
| 2 | 24.9 | 24.3 | 23.8 | 23.2 | 22.7 | 22.2 | 21.3 | 20.4 | 19.6 | 18.9 | 18.2 | 17.6 | 16.3 | 14.8 | 13.0 | |
| 3 | 24.8 | 24.1 | 23.4 | 22.8 | 22.1 | 21.6 | 20.5 | 19.5 | 18.6 | 17.8 | 17.1 | 16.4 | 15.7 | 14.2 | 12.5 | |
| 4 | 24.7 | 23.9 | 23.1 | 22.4 | 21.7 | 21.0 | 19.9 | 18.8 | 17.9 | 17.0 | 16.2 | 15.5 | 14.9 | 14.0 | 12.3 | |
| 5 | 24.6 | 23.7 | 22.8 | 22.0 | 21.3 | 20.6 | 19.4 | 18.3 | 17.3 | 16.4 | 15.6 | 14.8 | 14.2 | - | - | |
| 10 | 24.2 | 23.0 | 21.9 | 20.9 | 19.9 | 19.1 | 17.6 | 16.3 | - | - | - | - | - | - | - | |
| 15 | 23.9 | 22.5 | 21.2 | 20.0 | 19.0 | 18.1 | - | - | - | - | - | - | - | - | - | |
| 30 | 23.3 | 21.4 | 19.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 24.9 | 24.5 | 24.0 | 23.5 | 23.0 | 22.6 | 21.8 | 21.0 | 20.2 | 18.9 | 16.5 | 14.7 | 13.2 | 12.0 | 10.6 | 60 |
| 2 | 24.8 | 24.1 | 23.4 | 22.8 | 22.1 | 21.6 | 20.5 | 19.5 | 18.6 | 16.3 | 14.3 | 12.7 | 11.4 | 10.4 | 9.1 | |
| 3 | 24.6 | 23.8 | 23.0 | 22.2 | 21.5 | 20.8 | 19.6 | 18.5 | 17.6 | 15.5 | 13.5 | 12.0 | 10.8 | 9.8 | 8.7 | |
| 4 | 24.5 | 23.5 | 22.6 | 21.8 | 21.0 | 20.2 | 18.9 | 17.8 | 16.7 | 15.1 | 13.2 | 11.7 | 10.5 | 9.6 | 8.4 | |
| 5 | 24.4 | 23.3 | 22.3 | 21.4 | 20.5 | 19.8 | 18.4 | 17.1 | 16.1 | 14.8 | 12.9 | 11.5 | 10.4 | - | - | |
| 10 | 23.9 | 22.5 | 21.2 | 20.0 | 19.0 | 18.1 | 16.4 | 15.1 | - | - | - | - | - | - | - | |
| 15 | 23.6 | 21.9 | 20.4 | 19.1 | 17.9 | 16.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 22.8 | 20.6 | 18.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 24.9 | 24.3 | 23.8 | 23.2 | 22.7 | 22.2 | 21.3 | 20.4 | 18.0 | 15.4 | 13.5 | 12.0 | 10.8 | 9.8 | 8.6 | 80 |
| 2 | 24.7 | 23.9 | 23.1 | 22.4 | 21.7 | 21.0 | 19.9 | 18.0 | 15.0 | 12.9 | 11.3 | 10.0 | 9.0 | 8.2 | 7.2 | |
| 3 | 24.5 | 23.5 | 22.6 | 21.8 | 21.0 | 20.2 | 18.9 | 16.8 | 14.0 | 12.0 | 10.5 | 9.4 | 8.4 | 7.7 | 6.7 | |
| 4 | 24.3 | 23.2 | 22.2 | 21.3 | 20.4 | 19.6 | 18.2 | 16.3 | 13.5 | 11.6 | 10.2 | 9.0 | 8.1 | 7.4 | 6.5 | |
| 5 | 24.2 | 23.0 | 21.9 | 20.8 | 19.9 | 19.1 | 17.6 | 15.9 | 13.2 | 11.4 | 9.9 | 8.8 | 7.9 | - | - | |
| 10 | 23.7 | 22.0 | 20.6 | 19.4 | 18.3 | 17.3 | 15.6 | 14.2 | - | - | - | - | - | - | - | |
| 15 | 23.3 | 21.4 | 19.8 | 18.4 | 17.2 | 16.1 | - | - | - | - | - | - | - | - | - | |
| 30 | 22.5 | 20.0 | 18.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 24.9 | 24.2 | 23.6 | 23.0 | 22.4 | 21.9 | 20.8 | 18.7 | 15.6 | 13.4 | 11.7 | 10.4 | 9.4 | 8.5 | 7.5 | 100 |
| 2 | 24.6 | 23.7 | 22.8 | 22.0 | 21.3 | 20.6 | 18.9 | 15.1 | 12.6 | 10.8 | 9.5 | 8.4 | 7.6 | 6.9 | 6.1 | |
| 3 | 24.4 | 23.3 | 22.3 | 21.4 | 20.5 | 19.8 | 17.4 | 14.0 | 11.6 | 10.0 | 8.7 | 7.8 | 7.0 | 6.3 | 5.6 | |
| 4 | 24.2 | 23.0 | 21.9 | 20.8 | 19.9 | 19.1 | 16.7 | 13.4 | 11.1 | 9.5 | 8.3 | 7.4 | 6.7 | 6.1 | 5.3 | |
| 5 | 24.1 | 22.7 | 21.5 | 20.4 | 19.4 | 18.5 | 16.3 | 13.0 | 10.8 | 9.3 | 8.1 | 7.2 | 6.5 | - | - | |
| 10 | 23.5 | 21.7 | 20.2 | 18.8 | 17.7 | 16.6 | 14.9 | 12.3 | - | - | - | - | - | - | - | |
| 15 | 23.1 | 21.0 | 19.2 | 17.8 | 16.5 | 15.4 | - | - | - | - | - | - | - | - | - | |
| 30 | 22.1 | 19.5 | 17.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 24.7 | 23.9 | 23.2 | 22.5 | 21.8 | 21.2 | 18.6 | 14.9 | 12.4 | 10.6 | 9.3 | 8.3 | 7.4 | 6.8 | 5.9 | 150 |
| 2 | 24.4 | 23.3 | 22.3 | 21.4 | 20.5 | 18.8 | 14.1 | 11.3 | 9.4 | 8.1 | 7.1 | 6.3 | 5.6 | 5.1 | 4.5 | |
| 3 | 24.1 | 22.8 | 21.7 | 20.6 | 19.7 | 16.8 | 12.6 | 10.1 | 8.4 | 7.2 | 6.3 | 5.6 | 5.0 | 4.6 | 4.0 | |
| 4 | 23.9 | 22.5 | 21.2 | 20.0 | 19.0 | 15.8 | 11.9 | 9.5 | 7.9 | 6.8 | 5.9 | 5.3 | 4.8 | 4.3 | 3.8 | |
| 5 | 23.7 | 22.1 | 20.7 | 19.5 | 18.3 | 15.2 | 11.4 | 9.1 | 7.6 | 6.5 | 5.7 | 5.1 | 4.6 | - | - | |
| 10 | 23.0 | 21.0 | 19.2 | 17.8 | 16.5 | 14.0 | 10.5 | 8.4 | - | - | - | - | - | - | - | |
| 15 | 22.5 | 20.2 | 18.2 | 16.6 | 15.3 | 13.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 21.5 | 18.5 | 16.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 24.4 | 23.3 | 22.3 | 21.4 | 20.5 | 18.3 | 13.7 | 11.0 | 9.2 | 7.9 | 6.9 | 6.1 | 5.5 | 5.0 | 4.4 | 300 |
| 2 | 23.9 | 22.5 | 21.2 | 18.6 | 14.9 | 12.4 | 9.3 | 7.4 | 6.2 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | |
| 3 | 23.6 | 21.9 | 20.4 | 15.6 | 12.5 | 10.4 | 7.8 | 6.2 | 5.2 | 4.5 | 3.9 | 3.5 | 3.1 | 2.8 | 2.5 | |
| 4 | 23.3 | 21.4 | 18.8 | 14.1 | 11.3 | 9.4 | 7.1 | 5.6 | 4.7 | 4.0 | 3.5 | 3.1 | 2.8 | 2.6 | 2.3 | |
| 5 | 23.0 | 21.0 | 17.6 | 13.2 | 10.6 | 8.8 | 6.6 | 5.3 | 4.4 | 3.8 | 3.3 | 2.9 | 2.6 | - | - | |
| 10 | 22.1 | 19.5 | 15.2 | 11.4 | 9.1 | 7.6 | 5.7 | 4.6 | - | - | - | - | - | - | - | |
| 15 | 21.5 | 18.5 | 14.4 | 10.8 | 8.7 | 7.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 20.2 | 16.6 | 13.7 | - | - | - | - | - | - | - | - | - | - | - | - | |



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 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 | 8.5 | 8.5 | 8.3 | 8.3 | 8.2 | 8.2 | 8.1 | 8.0 | 7.9 | 7.9 | 7.8 | 7.8 | 7.7 | 7.6 | 7.5 | 5 |
| 2 | 8.4 | 8.4 | 8.3 | 8.3 | 8.2 | 8.2 | 8.1 | 7.9 | 7.8 | 7.7 | 7.6 | 7.5 | 7.4 | 7.3 | 7.2 | |
| 3 | 8.4 | 8.4 | 8.3 | 8.2 | 8.2 | 8.1 | 8.0 | 7.8 | 7.7 | 7.6 | 7.4 | 7.3 | 7.2 | 7.1 | 6.9 | |
| 4 | 8.4 | 8.4 | 8.3 | 8.2 | 8.1 | 8.0 | 7.9 | 7.7 | 7.6 | 7.4 | 7.3 | 7.2 | 7.0 | 6.9 | 6.7 | |
| 5 | 8.3 | 8.3 | 8.3 | 8.2 | 8.1 | 8.0 | 7.8 | 7.6 | 7.5 | 7.3 | 7.2 | 7.0 | 6.9 | - | - | |
| 10 | 8.3 | 8.3 | 8.1 | 8.0 | 7.9 | 7.8 | 7.5 | 7.3 | - | - | - | - | - | - | - | |
| 15 | 8.3 | 8.2 | 8.1 | 7.9 | 7.8 | 7.6 | - | - | - | - | - | - | - | - | - | |
| 30 | 8.3 | 8.1 | 7.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 8.4 | 8.4 | 8.3 | 8.3 | 8.2 | 8.2 | 8.1 | 7.9 | 7.8 | 7.7 | 7.6 | 7.5 | 7.4 | 7.3 | 7.2 | 10 |
| 2 | 8.4 | 8.4 | 8.3 | 8.2 | 8.1 | 8.0 | 7.9 | 7.7 | 7.6 | 7.4 | 7.3 | 7.2 | 7.0 | 6.9 | 6.7 | |
| 3 | 8.3 | 8.3 | 8.2 | 8.1 | 8.0 | 7.9 | 7.7 | 7.6 | 7.4 | 7.2 | 7.1 | 6.9 | 6.8 | 6.6 | 6.4 | |
| 4 | 8.3 | 8.3 | 8.2 | 8.1 | 7.9 | 7.8 | 7.6 | 7.4 | 7.2 | 7.0 | 6.9 | 6.7 | 6.6 | 6.4 | 6.2 | |
| 5 | 8.3 | 8.3 | 8.1 | 8.0 | 7.9 | 7.8 | 7.5 | 7.3 | 7.1 | 6.9 | 6.7 | 6.5 | 6.4 | - | - | |
| 10 | 8.3 | 8.2 | 8.0 | 7.8 | 7.6 | 7.5 | 7.2 | 6.9 | - | - | - | - | - | - | - | |
| 15 | 8.3 | 8.1 | 7.9 | 7.7 | 7.5 | 7.3 | - | - | - | - | - | - | - | - | - | |
| 30 | 8.2 | 7.9 | 7.6 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 8.4 | 8.4 | 8.3 | 8.2 | 8.1 | 8.0 | 7.9 | 7.7 | 7.6 | 7.4 | 7.3 | 7.2 | 7.0 | 6.9 | 6.7 | 20 |
| 2 | 8.3 | 8.3 | 8.2 | 8.1 | 7.9 | 7.8 | 7.6 | 7.4 | 7.2 | 7.0 | 6.9 | 6.7 | 6.5 | 6.4 | 6.2 | |
| 3 | 8.3 | 8.2 | 8.1 | 8.0 | 7.8 | 7.7 | 7.4 | 7.2 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.1 | 5.8 | |
| 4 | 8.3 | 8.2 | 8.0 | 7.9 | 7.7 | 7.6 | 7.3 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 | 5.6 | |
| 5 | 8.3 | 8.2 | 8.0 | 7.8 | 7.6 | 7.5 | 7.2 | 6.9 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 | - | - | |
| 10 | 8.3 | 8.0 | 7.8 | 7.5 | 7.3 | 7.1 | 6.7 | 6.4 | - | - | - | - | - | - | - | |
| 15 | 8.2 | 7.9 | 7.6 | 7.3 | 7.1 | 6.8 | - | - | - | - | - | - | - | - | - | |
| 30 | 8.1 | 7.7 | 7.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 8.3 | 8.3 | 8.2 | 8.1 | 7.9 | 7.8 | 7.6 | 7.4 | 7.2 | 7.0 | 6.9 | 6.7 | 6.5 | 6.4 | 6.2 | 40 |
| 2 | 8.3 | 8.2 | 8.0 | 7.9 | 7.7 | 7.6 | 7.3 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 | 5.6 | |
| 3 | 8.3 | 8.1 | 7.9 | 7.7 | 7.5 | 7.4 | 7.1 | 6.8 | 6.5 | 6.2 | 6.0 | 5.8 | 5.6 | 5.4 | 5.1 | |
| 4 | 8.3 | 8.1 | 7.8 | 7.6 | 7.4 | 7.2 | 6.9 | 6.5 | 6.3 | 6.0 | 5.7 | 5.5 | 5.3 | 5.1 | 4.8 | |
| 5 | 8.3 | 8.0 | 7.8 | 7.5 | 7.3 | 7.1 | 6.7 | 6.4 | 6.1 | 5.8 | 5.5 | 5.3 | 5.1 | - | - | |
| 10 | 8.2 | 7.8 | 7.5 | 7.2 | 6.9 | 6.6 | 6.2 | 5.8 | - | - | - | - | - | - | - | |
| 15 | 8.1 | 7.6 | 7.3 | 6.9 | 6.6 | 6.3 | - | - | - | - | - | - | - | - | - | |
| 30 | 7.9 | 7.3 | 6.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 8.3 | 8.2 | 8.1 | 8.0 | 7.8 | 7.7 | 7.4 | 7.2 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.1 | 5.8 | 60 |
| 2 | 8.3 | 8.1 | 7.9 | 7.7 | 7.5 | 7.4 | 7.1 | 6.8 | 6.5 | 6.2 | 6.0 | 5.8 | 5.6 | 5.4 | 5.1 | |
| 3 | 8.3 | 8.0 | 7.8 | 7.6 | 7.4 | 7.2 | 6.8 | 6.5 | 6.2 | 5.9 | 5.6 | 5.4 | 5.2 | 5.0 | 4.7 | |
| 4 | 8.2 | 8.0 | 7.7 | 7.4 | 7.2 | 7.0 | 6.6 | 6.2 | 5.9 | 5.6 | 5.3 | 5.1 | 4.9 | 4.7 | 4.4 | |
| 5 | 8.2 | 7.9 | 7.6 | 7.3 | 7.1 | 6.8 | 6.4 | 6.0 | 5.7 | 5.4 | 5.1 | 4.9 | 4.7 | - | - | |
| 10 | 8.1 | 7.6 | 7.3 | 6.9 | 6.6 | 6.3 | 5.8 | 5.4 | - | - | - | - | - | - | - | |
| 15 | 8.0 | 7.5 | 7.0 | 6.6 | 6.3 | 6.0 | - | - | - | - | - | - | - | - | - | |
| 30 | 7.8 | 7.1 | 6.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 8.3 | 8.2 | 8.0 | 7.9 | 7.7 | 7.6 | 7.3 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 | 5.6 | 80 |
| 2 | 8.3 | 8.1 | 7.8 | 7.6 | 7.4 | 7.2 | 6.9 | 6.5 | 6.3 | 6.0 | 5.7 | 5.5 | 5.3 | 5.1 | 4.8 | |
| 3 | 8.2 | 8.0 | 7.7 | 7.4 | 7.2 | 7.0 | 6.6 | 6.2 | 5.9 | 5.6 | 5.3 | 5.1 | 4.9 | 4.7 | 4.4 | |
| 4 | 8.2 | 7.9 | 7.6 | 7.3 | 7.0 | 6.8 | 6.4 | 6.0 | 5.6 | 5.3 | 5.1 | 4.8 | 4.6 | 4.4 | 4.1 | |
| 5 | 8.2 | 7.8 | 7.5 | 7.2 | 6.9 | 6.6 | 6.2 | 5.8 | 5.4 | 5.1 | 4.8 | 4.6 | 4.3 | - | - | |
| 10 | 8.0 | 7.5 | 7.1 | 6.7 | 6.4 | 6.1 | 5.5 | 5.1 | - | - | - | - | - | - | - | |
| 15 | 7.9 | 7.3 | 6.8 | 6.4 | 6.0 | 5.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 7.6 | 6.9 | 6.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 8.3 | 8.2 | 8.0 | 7.8 | 7.6 | 7.5 | 7.2 | 6.9 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 | 5.6 | 5.3 | 100 |
| 2 | 8.3 | 8.0 | 7.8 | 7.5 | 7.3 | 7.1 | 6.7 | 6.4 | 6.1 | 5.8 | 5.5 | 5.3 | 5.1 | 4.9 | 4.6 | |
| 3 | 8.2 | 7.9 | 7.6 | 7.3 | 7.1 | 6.8 | 6.4 | 6.0 | 5.7 | 5.4 | 5.1 | 4.9 | 4.7 | 4.5 | 4.2 | |
| 4 | 8.2 | 7.8 | 7.5 | 7.2 | 6.9 | 6.6 | 6.2 | 5.8 | 5.4 | 5.1 | 4.8 | 4.6 | 4.3 | 4.1 | 3.9 | |
| 5 | 8.1 | 7.7 | 7.4 | 7.0 | 6.7 | 6.5 | 6.0 | 5.6 | 5.2 | 4.9 | 4.6 | 4.3 | 4.1 | - | - | |
| 10 | 7.9 | 7.4 | 7.0 | 6.5 | 6.2 | 5.9 | 5.3 | 4.8 | - | - | - | - | - | - | - | |
| 15 | 7.8 | 7.2 | 6.7 | 6.2 | 5.8 | 5.5 | - | - | - | - | - | - | - | - | - | |
| 30 | 7.6 | 6.8 | 6.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 8.3 | 8.1 | 7.9 | 7.6 | 7.4 | 7.3 | 6.9 | 6.6 | 6.3 | 6.0 | 5.8 | 5.6 | 5.4 | 5.2 | 4.9 | 150 |
| 2 | 8.2 | 7.9 | 7.6 | 7.3 | 7.1 | 6.8 | 6.4 | 6.0 | 5.7 | 5.4 | 5.1 | 4.9 | 4.7 | 4.5 | 4.2 | |
| 3 | 8.1 | 7.8 | 7.4 | 7.1 | 6.8 | 6.5 | 6.1 | 5.7 | 5.3 | 5.0 | 4.7 | 4.4 | 4.2 | 4.0 | 3.7 | |
| 4 | 8.1 | 7.6 | 7.3 | 6.9 | 6.6 | 6.3 | 5.8 | 5.4 | 5.0 | 4.7 | 4.4 | 4.1 | 3.9 | 3.7 | 3.4 | |
| 5 | 8.0 | 7.5 | 7.1 | 6.8 | 6.4 | 6.1 | 5.6 | 5.1 | 4.8 | 4.4 | 4.2 | 3.9 | 3.7 | - | - | |
| 10 | 7.8 | 7.2 | 6.7 | 6.2 | 5.8 | 5.5 | 4.9 | 4.4 | - | - | - | - | - | - | - | |
| 15 | 7.7 | 7.0 | 6.4 | 5.9 | 5.4 | 5.1 | - | - | - | - | - | - | - | - | - | |
| 30 | 7.4 | 6.5 | 5.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 8.2 | 7.9 | 7.6 | 7.3 | 7.1 | 6.8 | 6.4 | 6.0 | 5.7 | 5.4 | 5.1 | 4.9 | 4.7 | 4.5 | 4.2 | 300 |
| 2 | 8.1 | 7.6 | 7.3 | 6.9 | 6.6 | 6.3 | 5.8 | 5.4 | 5.0 | 4.7 | 4.4 | 4.1 | 3.7 | 3.4 | 3.0 | |
| 3 | 8.0 | 7.5 | 7.0 | 6.6 | 6.3 | 6.0 | 5.4 | 5.0 | 4.6 | 4.2 | 3.9 | 3.5 | 3.1 | 2.8 | 2.5 | |
| 4 | 7.9 | 7.3 | 6.8 | 6.4 | 6.0 | 5.7 | 5.1 | 4.7 | 4.3 | 3.9 | 3.5 | 3.1 | 2.8 | 2.6 | 2.3 | |
| 5 | 7.8 | 7.2 | 6.7 | 6.2 | 5.8 | 5.5 | 4.9 | 4.4 | 4.0 | 3.7 | 3.3 | 2.9 | 2.6 | - | - | |
| 10 | 7.5 | 6.8 | 6.1 | 5.6 | 5.1 | 4.8 | 4.2 | 3.7 | - | - | - | - | - | - | - | |
| 15 | 7.4 | 6.5 | 5.8 | 5.2 | 4.7 | 4.3 | - | - | - | - | - | - | - | - | - | |
| 30 | 7.0 | 5.9 | 5.1 | - | - | - | - | - | - | - | - | - | - | - | - | |



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 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 | 30.2 | 30.2 | 29.7 | 29.3 | 29.0 | 28.7 | 28.3 | 28.0 | 27.7 | 27.5 | 27.2 | 27.0 | 26.6 | 26.3 | 25.8 | 5 |
| 2 | 30.1 | 30.1 | 29.7 | 29.3 | 29.0 | 28.7 | 28.3 | 27.7 | 27.2 | 26.7 | 26.2 | 25.7 | 25.3 | 24.8 | 24.2 | |
| 3 | 29.9 | 29.9 | 29.5 | 29.2 | 28.8 | 28.5 | 27.8 | 27.1 | 26.5 | 25.9 | 25.4 | 24.8 | 24.3 | 23.8 | 23.1 | |
| 4 | 29.8 | 29.8 | 29.4 | 28.9 | 28.5 | 28.1 | 27.4 | 26.7 | 26.0 | 25.3 | 24.7 | 24.1 | 23.6 | 23.0 | 22.3 | |
| 5 | 29.7 | 29.7 | 29.2 | 28.8 | 28.3 | 27.9 | 27.0 | 26.3 | 25.5 | 24.8 | 24.2 | 23.5 | 22.9 | - | - | |
| 10 | 29.7 | 29.3 | 28.7 | 28.0 | 27.5 | 26.9 | 25.8 | 24.8 | - | - | - | - | - | - | - | |
| 15 | 29.7 | 29.0 | 28.3 | 27.5 | 26.9 | 26.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 29.5 | 28.5 | 27.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 30.1 | 30.1 | 29.7 | 29.3 | 29.0 | 28.7 | 28.3 | 27.7 | 27.2 | 26.7 | 26.2 | 25.7 | 25.3 | 24.8 | 24.2 | 10 |
| 2 | 29.8 | 29.8 | 29.4 | 28.9 | 28.5 | 28.1 | 27.4 | 26.6 | 26.0 | 25.3 | 24.7 | 24.1 | 23.5 | 23.0 | 22.2 | |
| 3 | 29.7 | 29.6 | 29.1 | 28.6 | 28.1 | 27.6 | 26.7 | 25.9 | 25.1 | 24.3 | 23.7 | 23.0 | 22.4 | 21.8 | 20.9 | |
| 4 | 29.7 | 29.4 | 28.8 | 28.3 | 27.7 | 27.2 | 26.2 | 25.3 | 24.4 | 23.6 | 22.8 | 22.1 | 21.5 | 20.8 | 20.0 | |
| 5 | 29.7 | 29.3 | 28.6 | 28.0 | 27.4 | 26.8 | 25.8 | 24.8 | 23.8 | 23.0 | 22.2 | 21.4 | 20.7 | - | - | |
| 10 | 29.7 | 28.8 | 27.9 | 27.0 | 26.3 | 25.5 | 24.2 | 22.9 | - | - | - | - | - | - | - | |
| 15 | 29.5 | 28.4 | 27.3 | 26.4 | 25.5 | 24.6 | - | - | - | - | - | - | - | - | - | |
| 30 | 29.0 | 27.5 | 26.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 29.8 | 29.8 | 29.4 | 28.9 | 28.5 | 28.1 | 27.4 | 26.6 | 26.0 | 25.3 | 24.7 | 24.1 | 23.5 | 23.0 | 22.2 | 20 |
| 2 | 29.7 | 29.4 | 28.8 | 28.3 | 27.7 | 27.2 | 26.2 | 25.3 | 24.4 | 23.6 | 22.8 | 22.1 | 21.5 | 20.8 | 19.9 | |
| 3 | 29.7 | 29.2 | 28.4 | 27.8 | 27.1 | 26.5 | 25.3 | 24.3 | 23.3 | 22.4 | 21.6 | 20.8 | 20.1 | 19.4 | 18.5 | |
| 4 | 29.7 | 28.9 | 28.1 | 27.4 | 26.6 | 26.0 | 24.7 | 23.5 | 22.5 | 21.5 | 20.6 | 19.8 | 19.1 | 18.4 | 17.4 | |
| 5 | 29.7 | 28.7 | 27.9 | 27.0 | 26.2 | 25.5 | 24.1 | 22.9 | 21.8 | 20.8 | 19.9 | 19.0 | 18.3 | - | - | |
| 10 | 29.3 | 28.0 | 26.8 | 25.8 | 24.8 | 23.8 | 22.2 | 20.7 | - | - | - | - | - | - | - | |
| 15 | 29.0 | 27.5 | 26.1 | 24.9 | 23.7 | 22.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 28.4 | 26.4 | 24.6 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 29.7 | 29.4 | 28.8 | 28.3 | 27.7 | 27.2 | 26.2 | 25.3 | 24.4 | 23.6 | 22.5 | 20.0 | 18.0 | 16.4 | 14.4 | 40 |
| 2 | 29.7 | 28.9 | 28.1 | 27.4 | 26.6 | 26.0 | 24.7 | 23.5 | 22.5 | 21.5 | 20.3 | 18.1 | 16.3 | 14.8 | 13.0 | |
| 3 | 29.6 | 28.6 | 27.6 | 26.7 | 25.9 | 25.1 | 23.6 | 22.4 | 21.2 | 20.2 | 19.2 | 17.4 | 15.7 | 14.2 | 12.5 | |
| 4 | 29.4 | 28.3 | 27.2 | 26.2 | 25.3 | 24.4 | 22.8 | 21.5 | 20.2 | 19.1 | 18.2 | 17.1 | 15.4 | 14.0 | 12.3 | |
| 5 | 29.3 | 28.0 | 26.8 | 25.7 | 24.7 | 23.8 | 22.2 | 20.7 | 19.5 | 18.3 | 17.3 | 16.4 | 15.2 | - | - | |
| 10 | 28.7 | 27.0 | 25.5 | 24.1 | 22.9 | 21.8 | 19.9 | 18.3 | - | - | - | - | - | - | - | |
| 15 | 28.3 | 26.3 | 24.6 | 23.0 | 21.7 | 20.5 | - | - | - | - | - | - | - | - | - | |
| 30 | 27.5 | 24.9 | 22.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 29.7 | 29.2 | 28.4 | 27.8 | 27.1 | 26.5 | 25.3 | 24.3 | 22.0 | 18.9 | 16.5 | 14.7 | 13.2 | 12.0 | 10.6 | 60 |
| 2 | 29.6 | 28.6 | 27.6 | 26.7 | 25.9 | 25.1 | 23.6 | 22.4 | 19.0 | 16.3 | 14.3 | 12.7 | 11.4 | 10.4 | 9.1 | |
| 3 | 29.4 | 28.1 | 27.0 | 26.0 | 25.0 | 24.1 | 22.5 | 21.1 | 18.1 | 15.5 | 13.5 | 12.0 | 10.8 | 9.8 | 8.7 | |
| 4 | 29.2 | 27.8 | 26.5 | 25.3 | 24.3 | 23.3 | 21.6 | 20.1 | 17.6 | 15.1 | 13.2 | 11.7 | 10.5 | 9.6 | 8.4 | |
| 5 | 29.0 | 27.5 | 26.1 | 24.8 | 23.7 | 22.7 | 20.9 | 19.3 | 17.3 | 14.8 | 12.9 | 11.5 | 10.4 | - | - | |
| 10 | 28.3 | 26.3 | 24.6 | 23.0 | 21.7 | 20.5 | 18.4 | 16.7 | - | - | - | - | - | - | - | |
| 15 | 27.9 | 25.5 | 23.5 | 21.8 | 20.3 | 19.0 | - | - | - | - | - | - | - | - | - | |
| 30 | 26.8 | 23.8 | 21.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 29.7 | 28.9 | 28.1 | 27.4 | 26.6 | 26.0 | 24.7 | 21.6 | 18.0 | 15.4 | 13.5 | 12.0 | 10.8 | 9.8 | 8.6 | 80 |
| 2 | 29.4 | 28.3 | 27.2 | 26.2 | 25.3 | 24.4 | 22.5 | 18.0 | 15.0 | 12.9 | 11.3 | 10.0 | 9.0 | 8.2 | 7.2 | |
| 3 | 29.2 | 27.8 | 26.5 | 25.3 | 24.3 | 23.3 | 21.1 | 16.8 | 14.0 | 12.0 | 10.5 | 9.4 | 8.4 | 7.7 | 6.7 | |
| 4 | 28.9 | 27.4 | 26.0 | 24.7 | 23.5 | 22.5 | 20.3 | 16.3 | 13.5 | 11.6 | 10.2 | 9.0 | 8.1 | 7.4 | 6.5 | |
| 5 | 28.7 | 27.0 | 25.5 | 24.1 | 22.9 | 21.8 | 19.9 | 15.9 | 13.2 | 11.4 | 9.9 | 8.8 | 7.9 | - | - | |
| 10 | 28.0 | 25.7 | 23.8 | 22.2 | 20.7 | 19.5 | 17.3 | 15.2 | - | - | - | - | - | - | - | |
| 15 | 27.5 | 24.8 | 22.7 | 20.9 | 19.3 | 18.0 | - | - | - | - | - | - | - | - | - | |
| 30 | 26.3 | 23.0 | 20.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 29.7 | 28.7 | 27.9 | 27.0 | 26.2 | 25.5 | 23.4 | 18.7 | 15.6 | 13.4 | 11.7 | 10.4 | 9.4 | 8.5 | 7.5 | 100 |
| 2 | 29.3 | 28.0 | 26.8 | 25.7 | 24.7 | 23.8 | 18.9 | 15.1 | 12.6 | 10.8 | 9.5 | 8.4 | 7.6 | 6.9 | 6.1 | |
| 3 | 29.0 | 27.5 | 26.1 | 24.8 | 23.7 | 22.7 | 17.4 | 14.0 | 11.6 | 10.0 | 8.7 | 7.8 | 7.0 | 6.3 | 5.6 | |
| 4 | 28.7 | 27.0 | 25.5 | 24.1 | 22.9 | 21.8 | 16.7 | 13.4 | 11.1 | 9.5 | 8.3 | 7.4 | 6.7 | 6.1 | 5.3 | |
| 5 | 28.5 | 26.6 | 25.0 | 23.5 | 22.2 | 21.1 | 16.3 | 13.0 | 10.8 | 9.3 | 8.1 | 7.2 | 6.5 | - | - | |
| 10 | 27.7 | 25.3 | 23.2 | 21.5 | 19.9 | 18.6 | 15.4 | 12.3 | - | - | - | - | - | - | - | |
| 15 | 27.1 | 24.3 | 22.0 | 20.1 | 18.5 | 17.1 | - | - | - | - | - | - | - | - | - | |
| 30 | 25.9 | 22.4 | 19.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 29.5 | 28.3 | 27.3 | 26.3 | 25.4 | 24.5 | 18.6 | 14.9 | 12.4 | 10.6 | 9.3 | 8.3 | 7.4 | 6.8 | 5.9 | 150 |
| 2 | 29.0 | 27.5 | 26.1 | 24.8 | 22.6 | 18.8 | 14.1 | 11.3 | 9.4 | 8.1 | 7.1 | 6.3 | 5.6 | 5.1 | 4.5 | |
| 3 | 28.6 | 26.8 | 25.2 | 23.8 | 20.2 | 16.8 | 12.6 | 10.1 | 8.4 | 7.2 | 6.3 | 5.6 | 5.0 | 4.6 | 4.0 | |
| 4 | 28.3 | 26.3 | 24.5 | 23.0 | 19.0 | 15.8 | 11.9 | 9.5 | 7.9 | 6.8 | 5.9 | 5.3 | 4.8 | 4.3 | 3.8 | |
| 5 | 28.1 | 25.9 | 24.0 | 22.4 | 18.3 | 15.2 | 11.4 | 9.1 | 7.6 | 6.5 | 5.7 | 5.1 | 4.6 | - | - | |
| 10 | 27.1 | 24.3 | 22.0 | 20.1 | 16.9 | 14.0 | 10.5 | 8.4 | - | - | - | - | - | - | - | |
| 15 | 26.4 | 23.2 | 20.7 | 18.6 | 16.4 | 13.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 25.0 | 21.1 | 18.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 29.0 | 27.5 | 26.1 | 24.8 | 22.0 | 18.3 | 13.7 | 11.0 | 9.2 | 7.9 | 6.9 | 6.1 | 5.5 | 5.0 | 4.4 | 300 |
| 2 | 28.3 | 26.3 | 24.5 | 18.6 | 14.9 | 12.4 | 9.3 | 7.4 | 6.2 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | |
| 3 | 27.9 | 25.5 | 20.8 | 15.6 | 12.5 | 10.4 | 7.8 | 6.2 | 5.2 | 4.5 | 3.9 | 3.5 | 3.1 | 2.8 | 2.5 | |
| 4 | 27.5 | 24.8 | 18.8 | 14.1 | 11.3 | 9.4 | 7.1 | 5.6 | 4.7 | 4.0 | 3.5 | 3.1 | 2.8 | 2.6 | 2.3 | |
| 5 | 27.1 | 24.3 | 17.6 | 13.2 | 10.6 | 8.8 | 6.6 | 5.3 | 4.4 | 3.8 | 3.3 | 2.9 | 2.6 | - | - | |
| 10 | 25.9 | 22.4 | 15.2 | 11.4 | 9.1 | 7.6 | 5.7 | 4.6 | - | - | - | - | - | - | - | |
| 15 | 25.0 | 21.1 | 14.4 | 10.8 | 8.7 | 7.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 23.2 | 18.6 | 13.7 | - | - | - | - | - | - | - | - | - | - | - | - | |



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 | 13.3 | 13.1 | 12.9 | 12.8 | 12.6 | 12.6 | 12.4 | 12.2 | 12.1 | 12.0 | 11.9 | 11.8 | 11.7 | 11.5 | 11.3 | 5 |
| 2 | 13.3 | 13.1 | 12.9 | 12.8 | 12.6 | 12.6 | 12.4 | 12.2 | 12.0 | 11.7 | 11.5 | 11.3 | 11.1 | 10.9 | 10.6 | |
| 3 | 13.3 | 13.1 | 12.9 | 12.8 | 12.6 | 12.6 | 12.2 | 11.9 | 11.6 | 11.4 | 11.1 | 10.8 | 10.6 | 10.4 | 10.1 | |
| 4 | 13.3 | 13.1 | 12.9 | 12.8 | 12.6 | 12.4 | 12.0 | 11.7 | 11.4 | 11.1 | 10.8 | 10.5 | 10.3 | 10.0 | 9.7 | |
| 5 | 13.3 | 13.1 | 12.9 | 12.7 | 12.5 | 12.3 | 11.9 | 11.5 | 11.2 | 10.8 | 10.5 | 10.2 | 10.0 | - | - | |
| 10 | 13.3 | 13.0 | 12.6 | 12.3 | 12.1 | 11.8 | 11.3 | 10.8 | - | - | - | - | - | - | - | |
| 15 | 13.2 | 12.8 | 12.4 | 12.1 | 11.8 | 11.5 | - | - | - | - | - | - | - | - | - | |
| 30 | 13.0 | 12.5 | 12.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 13.3 | 13.1 | 12.9 | 12.8 | 12.6 | 12.6 | 12.4 | 12.2 | 12.0 | 11.7 | 11.5 | 11.3 | 11.1 | 10.9 | 10.6 | 10 |
| 2 | 13.3 | 13.1 | 12.9 | 12.8 | 12.6 | 12.4 | 12.0 | 11.7 | 11.4 | 11.1 | 10.8 | 10.5 | 10.3 | 10.0 | 9.7 | |
| 3 | 13.3 | 13.1 | 12.8 | 12.6 | 12.4 | 12.2 | 11.7 | 11.3 | 11.0 | 10.6 | 10.3 | 10.0 | 9.7 | 9.4 | 9.1 | |
| 4 | 13.3 | 13.0 | 12.7 | 12.5 | 12.2 | 12.0 | 11.5 | 11.1 | 10.7 | 10.3 | 9.9 | 9.6 | 9.3 | 9.0 | 8.6 | |
| 5 | 13.3 | 12.9 | 12.6 | 12.3 | 12.1 | 11.8 | 11.3 | 10.8 | 10.4 | 10.0 | 9.6 | 9.3 | 9.0 | - | - | |
| 10 | 13.1 | 12.7 | 12.3 | 11.9 | 11.5 | 11.2 | 10.5 | 10.0 | - | - | - | - | - | - | - | |
| 15 | 13.0 | 12.5 | 12.0 | 11.6 | 11.1 | 10.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 12.8 | 12.1 | 11.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 13.3 | 13.1 | 12.9 | 12.8 | 12.6 | 12.4 | 12.0 | 11.7 | 11.4 | 11.1 | 10.8 | 10.5 | 10.3 | 10.0 | 9.7 | 20 |
| 2 | 13.3 | 13.0 | 12.7 | 12.5 | 12.2 | 12.0 | 11.5 | 11.1 | 10.7 | 10.3 | 9.9 | 9.6 | 9.3 | 9.0 | 8.6 | |
| 3 | 13.2 | 12.9 | 12.6 | 12.2 | 11.9 | 11.6 | 11.1 | 10.6 | 10.2 | 9.7 | 9.4 | 9.0 | 8.7 | 8.4 | 8.0 | |
| 4 | 13.2 | 12.8 | 12.4 | 12.0 | 11.7 | 11.4 | 10.8 | 10.3 | 9.8 | 9.3 | 8.9 | 8.6 | 8.2 | 7.9 | 7.5 | |
| 5 | 13.1 | 12.7 | 12.3 | 11.9 | 11.5 | 11.2 | 10.5 | 10.0 | 9.5 | 9.0 | 8.6 | 8.2 | 7.9 | - | - | |
| 10 | 12.9 | 12.3 | 11.8 | 11.3 | 10.8 | 10.4 | 9.6 | 9.0 | - | - | - | - | - | - | - | |
| 15 | 12.8 | 12.1 | 11.4 | 10.9 | 10.3 | 9.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 12.5 | 11.6 | 10.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 13.3 | 13.0 | 12.7 | 12.5 | 12.2 | 12.0 | 11.5 | 11.1 | 10.7 | 10.3 | 9.9 | 9.6 | 9.3 | 9.0 | 8.6 | 40 |
| 2 | 13.2 | 12.8 | 12.4 | 12.0 | 11.7 | 11.4 | 10.8 | 10.3 | 9.8 | 9.3 | 8.9 | 8.6 | 8.2 | 7.9 | 7.5 | |
| 3 | 13.1 | 12.6 | 12.2 | 11.7 | 11.3 | 11.0 | 10.3 | 9.7 | 9.2 | 8.7 | 8.3 | 7.9 | 7.5 | 7.2 | 6.8 | |
| 4 | 13.0 | 12.5 | 12.0 | 11.5 | 11.1 | 10.7 | 9.9 | 9.3 | 8.7 | 8.3 | 7.8 | 7.4 | 7.1 | 6.7 | 6.3 | |
| 5 | 12.9 | 12.3 | 11.8 | 11.3 | 10.8 | 10.4 | 9.6 | 9.0 | 8.4 | 7.9 | 7.4 | 7.0 | 6.7 | - | - | |
| 10 | 12.7 | 11.9 | 11.2 | 10.5 | 10.0 | 9.5 | 8.6 | 7.9 | - | - | - | - | - | - | - | |
| 15 | 12.5 | 11.5 | 10.7 | 10.0 | 9.4 | 8.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 12.1 | 10.9 | 9.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 13.2 | 12.9 | 12.6 | 12.2 | 11.9 | 11.6 | 11.1 | 10.6 | 10.2 | 9.7 | 9.4 | 9.0 | 8.7 | 8.4 | 8.0 | 60 |
| 2 | 13.1 | 12.6 | 12.2 | 11.7 | 11.3 | 11.0 | 10.3 | 9.7 | 9.2 | 8.7 | 8.3 | 7.9 | 7.5 | 7.2 | 6.8 | |
| 3 | 13.0 | 12.4 | 11.9 | 11.4 | 10.9 | 10.5 | 9.8 | 9.1 | 8.6 | 8.1 | 7.6 | 7.2 | 6.9 | 6.5 | 6.1 | |
| 4 | 12.9 | 12.2 | 11.6 | 11.1 | 10.6 | 10.2 | 9.4 | 8.7 | 8.1 | 7.6 | 7.1 | 6.7 | 6.4 | 6.1 | 5.6 | |
| 5 | 12.8 | 12.1 | 11.4 | 10.9 | 10.3 | 9.9 | 9.0 | 8.3 | 7.7 | 7.2 | 6.8 | 6.4 | 6.0 | - | - | |
| 10 | 12.5 | 11.5 | 10.7 | 10.0 | 9.4 | 8.8 | 7.9 | 7.2 | - | - | - | - | - | - | - | |
| 15 | 12.3 | 11.2 | 10.2 | 9.5 | 8.8 | 8.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 11.8 | 10.4 | 9.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 13.2 | 12.8 | 12.4 | 12.0 | 11.7 | 11.4 | 10.8 | 10.3 | 9.8 | 9.3 | 8.9 | 8.6 | 8.2 | 7.9 | 7.5 | 80 |
| 2 | 13.0 | 12.5 | 12.0 | 11.5 | 11.1 | 10.7 | 9.9 | 9.3 | 8.7 | 8.3 | 7.8 | 7.4 | 7.1 | 6.7 | 6.3 | |
| 3 | 12.9 | 12.2 | 11.6 | 11.1 | 10.6 | 10.2 | 9.4 | 8.7 | 8.1 | 7.6 | 7.1 | 6.7 | 6.4 | 6.1 | 5.6 | |
| 4 | 12.8 | 12.0 | 11.4 | 10.8 | 10.3 | 9.8 | 8.9 | 8.2 | 7.6 | 7.1 | 6.6 | 6.2 | 5.9 | 5.6 | 5.2 | |
| 5 | 12.7 | 11.9 | 11.2 | 10.5 | 10.0 | 9.5 | 8.6 | 7.9 | 7.2 | 6.7 | 6.3 | 5.9 | 5.5 | - | - | |
| 10 | 12.3 | 11.3 | 10.4 | 9.6 | 9.0 | 8.4 | 7.4 | 6.7 | - | - | - | - | - | - | - | |
| 15 | 12.1 | 10.9 | 9.9 | 9.0 | 8.3 | 7.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 11.5 | 10.0 | 8.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 13.1 | 12.7 | 12.3 | 11.9 | 11.5 | 11.2 | 10.5 | 10.0 | 9.5 | 9.0 | 8.6 | 8.2 | 7.9 | 7.5 | 7.1 | 100 |
| 2 | 12.9 | 12.3 | 11.8 | 11.3 | 10.8 | 10.4 | 9.6 | 9.0 | 8.4 | 7.9 | 7.4 | 7.0 | 6.7 | 6.4 | 5.9 | |
| 3 | 12.8 | 12.1 | 11.4 | 10.9 | 10.3 | 9.9 | 9.0 | 8.3 | 7.7 | 7.2 | 6.8 | 6.4 | 6.0 | 5.7 | 5.3 | |
| 4 | 12.7 | 11.9 | 11.2 | 10.5 | 10.0 | 9.5 | 8.6 | 7.9 | 7.2 | 6.7 | 6.3 | 5.9 | 5.5 | 5.2 | 4.8 | |
| 5 | 12.6 | 11.7 | 10.9 | 10.3 | 9.7 | 9.1 | 8.2 | 7.5 | 6.9 | 6.3 | 5.9 | 5.5 | 5.2 | - | - | |
| 10 | 12.2 | 11.1 | 10.1 | 9.3 | 8.6 | 8.0 | 7.1 | 6.3 | - | - | - | - | - | - | - | |
| 15 | 11.9 | 10.6 | 9.5 | 8.7 | 8.0 | 7.4 | - | - | - | - | - | - | - | - | - | |
| 30 | 11.3 | 9.7 | 8.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 13.0 | 12.5 | 12.0 | 11.5 | 11.1 | 10.7 | 10.0 | 9.4 | 8.8 | 8.4 | 7.9 | 7.5 | 7.2 | 6.8 | 5.9 | 150 |
| 2 | 12.8 | 12.1 | 11.4 | 10.9 | 10.3 | 9.9 | 9.0 | 8.3 | 7.7 | 7.2 | 6.8 | 6.3 | 5.6 | 5.1 | 4.5 | |
| 3 | 12.6 | 11.8 | 11.0 | 10.4 | 9.8 | 9.3 | 8.4 | 7.7 | 7.0 | 6.5 | 6.1 | 5.6 | 5.0 | 4.6 | 4.0 | |
| 4 | 12.5 | 11.5 | 10.7 | 10.0 | 9.4 | 8.8 | 7.9 | 7.2 | 6.6 | 6.0 | 5.6 | 5.2 | 4.8 | 4.3 | 3.8 | |
| 5 | 12.4 | 11.3 | 10.5 | 9.7 | 9.1 | 8.5 | 7.5 | 6.8 | 6.2 | 5.7 | 5.2 | 4.8 | 4.5 | - | - | |
| 10 | 11.9 | 10.6 | 9.5 | 8.7 | 8.0 | 7.4 | 6.4 | 5.6 | - | - | - | - | - | - | - | |
| 15 | 11.6 | 10.1 | 8.9 | 8.0 | 7.3 | 6.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 10.9 | 9.1 | 7.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 12.8 | 12.1 | 11.4 | 10.9 | 10.3 | 9.9 | 9.0 | 8.3 | 7.7 | 7.2 | 6.8 | 6.1 | 5.5 | 5.0 | 4.4 | 300 |
| 2 | 12.5 | 11.5 | 10.7 | 10.0 | 9.4 | 8.8 | 7.9 | 7.2 | 6.2 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | |
| 3 | 12.3 | 11.2 | 10.2 | 9.5 | 8.8 | 8.2 | 7.2 | 6.2 | 5.2 | 4.5 | 3.9 | 3.5 | 3.1 | 2.8 | 2.5 | |
| 4 | 12.1 | 10.9 | 9.9 | 9.0 | 8.3 | 7.7 | 6.8 | 5.6 | 4.7 | 4.0 | 3.5 | 3.1 | 2.8 | 2.6 | 2.3 | |
| 5 | 11.9 | 10.6 | 9.5 | 8.7 | 8.0 | 7.4 | 6.4 | 5.3 | 4.4 | 3.8 | 3.3 | 2.9 | 2.6 | - | - | |
| 10 | 11.3 | 9.7 | 8.5 | 7.5 | 6.8 | 6.2 | 5.2 | 4.5 | - | - | - | - | - | - | - | |
| 15 | 10.9 | 9.1 | 7.8 | 6.9 | 6.1 | 5.5 | - | - | - | - | - | - | - | - | - | |
| 30 | 10.1 | 8.0 | 6.7 | - | - | - | - | - | - | - | - | - | - | - | - | |



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 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 | 46.1 | 44.9 | 44.1 | 43.5 | 43.0 | 42.5 | 41.7 | 41.1 | 40.5 | 40.0 | 39.6 | 39.2 | 38.7 | 38.0 | 36.9 | 5 |
| 2 | 46.1 | 44.9 | 44.1 | 43.5 | 43.0 | 42.5 | 41.7 | 40.9 | 39.8 | 38.7 | 37.7 | 36.8 | 35.9 | 35.0 | 33.8 | |
| 3 | 46.1 | 44.9 | 44.1 | 43.5 | 43.0 | 42.5 | 41.0 | 39.7 | 38.4 | 37.2 | 36.1 | 35.0 | 34.0 | 33.0 | 31.7 | |
| 4 | 46.1 | 44.9 | 44.1 | 43.5 | 42.7 | 41.8 | 40.2 | 38.7 | 37.3 | 36.0 | 34.8 | 33.6 | 32.6 | 31.6 | 30.2 | |
| 5 | 46.1 | 44.9 | 44.1 | 43.2 | 42.2 | 41.2 | 39.5 | 37.8 | 36.4 | 35.0 | 33.7 | 32.5 | 31.4 | - | - | |
| 10 | 46.0 | 44.4 | 42.9 | 41.6 | 40.3 | 39.1 | 36.9 | 34.9 | - | - | - | - | - | - | - | |
| 15 | 45.6 | 43.7 | 42.0 | 40.4 | 39.0 | 37.6 | - | - | - | - | - | - | - | - | - | |
| 30 | 44.8 | 42.4 | 40.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 46.1 | 44.9 | 44.1 | 43.5 | 43.0 | 42.5 | 41.7 | 40.9 | 39.8 | 38.7 | 37.7 | 36.8 | 35.9 | 35.0 | 33.8 | 10 |
| 2 | 46.1 | 44.9 | 44.1 | 43.5 | 42.7 | 41.8 | 40.2 | 38.7 | 37.3 | 36.0 | 34.7 | 33.6 | 32.5 | 31.5 | 30.1 | |
| 3 | 46.1 | 44.9 | 43.9 | 42.8 | 41.7 | 40.7 | 38.8 | 37.1 | 35.5 | 34.1 | 32.8 | 31.5 | 30.4 | 29.3 | 27.9 | |
| 4 | 46.1 | 44.7 | 43.4 | 42.1 | 40.9 | 39.8 | 37.7 | 35.9 | 34.2 | 32.6 | 31.2 | 30.0 | 28.8 | 27.7 | 26.2 | |
| 5 | 46.0 | 44.4 | 42.9 | 41.5 | 40.3 | 39.1 | 36.8 | 34.9 | 33.1 | 31.5 | 30.0 | 28.7 | 27.5 | - | - | |
| 10 | 45.3 | 43.2 | 41.2 | 39.5 | 37.8 | 36.3 | 33.7 | 31.4 | 29.4 | 27.6 | 26.0 | 24.6 | 23.4 | - | - | |
| 15 | 44.8 | 42.3 | 40.0 | 38.0 | 36.2 | 34.5 | - | - | - | - | - | - | - | - | - | |
| 30 | 43.7 | 40.4 | 37.6 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 46.1 | 44.9 | 44.1 | 43.5 | 42.7 | 41.8 | 40.2 | 38.7 | 37.3 | 36.0 | 34.7 | 33.6 | 32.5 | 29.5 | 26.0 | 20 |
| 2 | 46.1 | 44.7 | 43.4 | 42.1 | 40.9 | 39.8 | 37.7 | 35.9 | 34.2 | 32.6 | 31.2 | 29.9 | 28.8 | 27.7 | 24.6 | |
| 3 | 45.8 | 44.1 | 42.5 | 41.0 | 39.7 | 38.4 | 36.0 | 34.0 | 32.1 | 30.5 | 29.0 | 27.6 | 26.4 | 25.3 | 23.8 | |
| 4 | 45.5 | 43.6 | 41.8 | 40.2 | 38.7 | 37.3 | 34.7 | 32.5 | 30.6 | 28.9 | 27.3 | 26.0 | 24.7 | 23.6 | 22.1 | |
| 5 | 45.3 | 43.2 | 41.2 | 39.5 | 37.8 | 36.3 | 33.7 | 31.4 | 29.4 | 27.6 | 26.0 | 24.6 | 23.4 | - | - | |
| 10 | 44.4 | 41.5 | 39.1 | 36.8 | 34.9 | 33.1 | 30.0 | 27.5 | - | - | - | - | - | - | - | |
| 15 | 43.7 | 40.4 | 37.5 | 35.1 | 32.9 | 31.0 | - | - | - | - | - | - | - | - | - | |
| 30 | 42.3 | 38.0 | 34.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 46.1 | 44.7 | 43.4 | 42.1 | 40.9 | 39.8 | 37.7 | 35.9 | 30.1 | 25.8 | 22.5 | 20.0 | 18.0 | 16.4 | 14.4 | 40 |
| 2 | 45.5 | 43.6 | 41.8 | 40.2 | 38.7 | 37.3 | 34.7 | 32.5 | 27.1 | 23.2 | 20.3 | 18.1 | 16.3 | 14.8 | 13.0 | |
| 3 | 45.1 | 42.8 | 40.7 | 38.8 | 37.1 | 35.5 | 32.7 | 30.4 | 26.1 | 22.4 | 19.6 | 17.4 | 15.7 | 14.2 | 12.5 | |
| 4 | 44.7 | 42.1 | 39.8 | 37.7 | 35.9 | 34.2 | 31.2 | 28.8 | 25.6 | 21.9 | 19.2 | 17.1 | 15.4 | 14.0 | 12.3 | |
| 5 | 44.4 | 41.5 | 39.0 | 36.8 | 34.9 | 33.1 | 30.0 | 27.5 | 25.3 | 21.7 | 19.0 | 16.9 | 15.2 | - | - | |
| 10 | 43.2 | 39.5 | 36.3 | 33.7 | 31.4 | 29.4 | 26.0 | 23.4 | - | - | - | - | - | - | - | |
| 15 | 42.3 | 38.0 | 34.5 | 31.6 | 29.1 | 27.0 | - | - | - | - | - | - | - | - | - | |
| 30 | 40.4 | 35.1 | 31.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 45.8 | 44.1 | 42.5 | 41.0 | 39.7 | 38.4 | 36.0 | 34.0 | 32.1 | 30.5 | 29.0 | 27.6 | 26.4 | 25.3 | 23.8 | 60 |
| 2 | 45.1 | 42.8 | 40.7 | 38.8 | 37.1 | 35.5 | 32.7 | 30.4 | 26.1 | 22.4 | 19.6 | 17.4 | 15.7 | 14.2 | 12.5 | |
| 3 | 44.5 | 41.8 | 39.4 | 37.3 | 35.3 | 33.6 | 27.1 | 21.7 | 18.1 | 15.5 | 13.5 | 12.0 | 10.8 | 9.8 | 8.7 | |
| 4 | 44.1 | 41.0 | 38.4 | 36.0 | 34.0 | 32.1 | 26.3 | 21.1 | 17.6 | 15.1 | 13.2 | 11.7 | 10.5 | 9.6 | 8.4 | |
| 5 | 43.7 | 40.4 | 37.5 | 35.0 | 32.9 | 30.9 | 25.9 | 20.7 | 17.3 | 14.8 | 12.9 | 11.5 | 10.4 | - | - | |
| 10 | 42.3 | 38.0 | 34.5 | 31.6 | 29.1 | 27.0 | 23.6 | 20.0 | - | - | - | - | - | - | - | |
| 15 | 41.2 | 36.3 | 32.5 | 29.4 | 26.8 | 24.6 | - | - | - | - | - | - | - | - | - | |
| 30 | 39.1 | 33.1 | 28.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 45.5 | 43.6 | 41.8 | 40.2 | 38.7 | 36.0 | 27.0 | 21.6 | 18.0 | 15.4 | 13.5 | 12.0 | 10.8 | 9.8 | 8.6 | 80 |
| 2 | 44.7 | 42.1 | 39.8 | 37.7 | 35.9 | 30.1 | 22.5 | 18.0 | 15.0 | 12.9 | 11.3 | 10.0 | 9.0 | 8.2 | 7.2 | |
| 3 | 44.1 | 41.0 | 38.4 | 36.0 | 33.7 | 28.1 | 21.1 | 16.8 | 14.0 | 12.0 | 10.5 | 9.4 | 8.4 | 7.7 | 6.7 | |
| 4 | 43.6 | 40.2 | 37.3 | 34.7 | 32.5 | 27.1 | 20.3 | 16.3 | 13.5 | 11.6 | 10.2 | 9.0 | 8.1 | 7.4 | 6.5 | |
| 5 | 43.2 | 39.4 | 36.3 | 33.7 | 31.4 | 26.5 | 19.9 | 15.9 | 13.2 | 11.4 | 9.9 | 8.8 | 7.9 | - | - | |
| 10 | 41.5 | 36.8 | 33.1 | 30.0 | 27.5 | 25.3 | 19.0 | 15.2 | - | - | - | - | - | - | - | |
| 15 | 40.4 | 35.0 | 31.0 | 27.7 | 25.1 | 22.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 38.0 | 31.6 | 27.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 45.3 | 43.2 | 41.2 | 39.4 | 37.4 | 31.2 | 23.4 | 18.7 | 15.6 | 13.4 | 11.7 | 10.4 | 9.4 | 8.5 | 7.5 | 100 |
| 2 | 44.4 | 41.5 | 39.0 | 36.8 | 30.3 | 25.2 | 18.9 | 15.1 | 12.6 | 10.8 | 9.5 | 8.4 | 7.6 | 6.9 | 6.1 | |
| 3 | 43.7 | 40.4 | 37.5 | 34.9 | 27.9 | 23.3 | 17.4 | 14.0 | 11.6 | 10.0 | 8.7 | 7.8 | 7.0 | 6.3 | 5.6 | |
| 4 | 43.2 | 39.4 | 36.3 | 33.4 | 26.7 | 22.3 | 16.7 | 13.4 | 11.1 | 9.5 | 8.3 | 7.4 | 6.7 | 6.1 | 5.3 | |
| 5 | 42.7 | 38.7 | 35.3 | 32.5 | 26.0 | 21.7 | 16.3 | 13.0 | 10.8 | 9.3 | 8.1 | 7.2 | 6.5 | - | - | |
| 10 | 40.9 | 35.9 | 31.9 | 28.8 | 24.6 | 20.5 | 15.4 | 12.3 | - | - | - | - | - | - | - | |
| 15 | 39.7 | 34.0 | 29.7 | 26.4 | 23.8 | 20.1 | - | - | - | - | - | - | - | - | - | |
| 30 | 37.1 | 30.4 | 25.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 44.8 | 42.3 | 40.0 | 37.1 | 29.7 | 24.8 | 18.6 | 14.9 | 12.4 | 10.6 | 9.3 | 8.3 | 7.4 | 6.8 | 5.9 | 150 |
| 2 | 43.7 | 40.4 | 37.5 | 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 | 42.9 | 39.0 | 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 | 42.3 | 38.0 | 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 | 41.7 | 37.1 | 30.5 | 22.9 | 18.3 | 15.2 | 11.4 | 9.1 | 7.6 | 6.5 | 5.7 | 5.1 | 4.6 | - | - | |
| 10 | 39.7 | 34.0 | 28.1 | 21.1 | 16.9 | 14.0 | 10.5 | 8.4 | - | - | - | - | - | - | - | |
| 15 | 38.2 | 31.9 | 27.3 | 20.5 | 16.4 | 13.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 35.3 | 28.1 | 23.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 43.7 | 40.4 | 36.7 | 27.5 | 22.0 | 18.3 | 13.7 | 11.0 | 9.2 | 7.9 | 6.9 | 6.1 | 5.5 | 5.0 | 4.4 | 300 |
| 2 | 42.3 | 37.1 | 24.8 | 18.6 | 14.9 | 12.4 | 9.3 | 7.4 | 6.2 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | |
| 3 | 41.2 | 31.2 | 20.8 | 15.6 | 12.5 | 10.4 | 7.8 | 6.2 | 5.2 | 4.5 | 3.9 | 3.5 | 3.1 | 2.8 | 2.5 | |
| 4 | 40.4 | 28.2 | 18.8 | 14.1 | 11.3 | 9.4 | 7.1 | 5.6 | 4.7 | 4.0 | 3.5 | 3.1 | 2.8 | 2.6 | 2.3 | |
| 5 | 39.7 | 26.4 | 17.6 | 13.2 | 10.6 | 8.8 | 6.6 | 5.3 | 4.4 | 3.8 | 3.3 | 2.9 | 2.6 | - | - | |
| 10 | 37.1 | 22.9 | 15.2 | 11.4 | 9.1 | 7.6 | 5.7 | 4.6 | - | - | - | - | - | - | - | |
| 15 | 35.3 | 21.7 | 14.4 | 10.8 | 8.7 | 7.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 31.9 | 20.5 | 13.7 | - | - | - | - | - | - | - | - | - | - | - | - | |



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 | 15.9 | 15.5 | 15.3 | 15.1 | 15.0 | 14.8 | 14.6 | 14.4 | 14.2 | 14.1 | 13.9 | 13.8 | 13.7 | 13.4 | 13.1 | 5 |
| 2 | 15.9 | 15.5 | 15.3 | 15.1 | 15.0 | 14.8 | 14.6 | 14.3 | 14.0 | 13.7 | 13.4 | 13.1 | 12.8 | 12.5 | 12.1 | |
| 3 | 15.9 | 15.5 | 15.3 | 15.1 | 15.0 | 14.8 | 14.4 | 14.0 | 13.6 | 13.2 | 12.8 | 12.5 | 12.2 | 11.9 | 11.5 | |
| 4 | 15.9 | 15.5 | 15.3 | 15.1 | 14.9 | 14.6 | 14.1 | 13.7 | 13.2 | 12.8 | 12.4 | 12.1 | 11.7 | 11.4 | 11.0 | |
| 5 | 15.9 | 15.5 | 15.3 | 15.0 | 14.7 | 14.4 | 13.9 | 13.4 | 12.9 | 12.5 | 12.1 | 11.7 | 11.4 | - | - | |
| 10 | 15.9 | 15.4 | 15.0 | 14.5 | 14.2 | 13.8 | 13.1 | 12.5 | - | - | - | - | - | - | - | |
| 15 | 15.7 | 15.2 | 14.7 | 14.2 | 13.7 | 13.3 | - | - | - | - | - | - | - | - | - | |
| 30 | 15.5 | 14.8 | 14.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 15.9 | 15.5 | 15.3 | 15.1 | 15.0 | 14.8 | 14.6 | 14.3 | 14.0 | 13.7 | 13.4 | 13.1 | 12.8 | 12.5 | 12.1 | 10 |
| 2 | 15.9 | 15.5 | 15.3 | 15.1 | 14.9 | 14.6 | 14.1 | 13.7 | 13.2 | 12.8 | 12.4 | 12.1 | 11.7 | 11.4 | 11.0 | |
| 3 | 15.9 | 15.5 | 15.2 | 14.9 | 14.6 | 14.3 | 13.7 | 13.2 | 12.7 | 12.2 | 11.8 | 11.4 | 11.0 | 10.7 | 10.2 | |
| 4 | 15.9 | 15.5 | 15.1 | 14.7 | 14.3 | 14.0 | 13.4 | 12.8 | 12.3 | 11.8 | 11.3 | 10.9 | 10.5 | 10.1 | 9.6 | |
| 5 | 15.9 | 15.4 | 14.9 | 14.5 | 14.1 | 13.8 | 13.1 | 12.5 | 11.9 | 11.4 | 10.9 | 10.5 | 10.1 | - | - | |
| 10 | 15.7 | 15.0 | 14.4 | 13.9 | 13.4 | 12.9 | 12.1 | 11.4 | - | - | - | - | - | - | - | |
| 15 | 15.5 | 14.8 | 14.1 | 13.5 | 12.9 | 12.4 | - | - | - | - | - | - | - | - | - | |
| 30 | 15.2 | 14.2 | 13.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 15.9 | 15.5 | 15.3 | 15.1 | 14.9 | 14.6 | 14.1 | 13.7 | 13.2 | 12.8 | 12.4 | 12.1 | 11.7 | 11.4 | 11.0 | 20 |
| 2 | 15.9 | 15.5 | 15.1 | 14.7 | 14.3 | 14.0 | 13.4 | 12.8 | 12.3 | 11.8 | 11.3 | 10.9 | 10.5 | 10.1 | 9.6 | |
| 3 | 15.8 | 15.3 | 14.8 | 14.4 | 14.0 | 13.6 | 12.8 | 12.2 | 11.6 | 11.1 | 10.6 | 10.1 | 9.7 | 9.3 | 8.8 | |
| 4 | 15.7 | 15.2 | 14.6 | 14.1 | 13.7 | 13.2 | 12.4 | 11.7 | 11.1 | 10.5 | 10.0 | 9.6 | 9.1 | 8.8 | 8.2 | |
| 5 | 15.7 | 15.0 | 14.4 | 13.9 | 13.4 | 12.9 | 12.1 | 11.3 | 10.7 | 10.1 | 9.6 | 9.1 | 8.7 | - | - | |
| 10 | 15.4 | 14.5 | 13.8 | 13.1 | 12.5 | 11.9 | 10.9 | 10.1 | - | - | - | - | - | - | - | |
| 15 | 15.2 | 14.2 | 13.3 | 12.5 | 11.8 | 11.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 14.8 | 13.5 | 12.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 15.9 | 15.5 | 15.1 | 14.7 | 14.3 | 14.0 | 13.4 | 12.8 | 12.2 | 11.8 | 11.3 | 10.9 | 10.5 | 10.1 | 9.6 | 40 |
| 2 | 15.7 | 15.2 | 14.6 | 14.1 | 13.7 | 13.2 | 12.4 | 11.7 | 11.1 | 10.5 | 10.0 | 9.6 | 9.1 | 8.8 | 8.2 | |
| 3 | 15.6 | 14.9 | 14.3 | 13.7 | 13.2 | 12.7 | 11.8 | 11.0 | 10.4 | 9.8 | 9.2 | 8.7 | 8.3 | 7.9 | 7.4 | |
| 4 | 15.5 | 14.7 | 14.0 | 13.4 | 12.8 | 12.3 | 11.3 | 10.5 | 9.8 | 9.2 | 8.6 | 8.2 | 7.7 | 7.3 | 6.8 | |
| 5 | 15.4 | 14.5 | 13.8 | 13.1 | 12.5 | 11.9 | 10.9 | 10.1 | 9.4 | 8.7 | 8.2 | 7.7 | 7.3 | - | - | |
| 10 | 15.0 | 13.9 | 12.9 | 12.1 | 11.3 | 10.7 | 9.6 | 8.7 | - | - | - | - | - | - | - | |
| 15 | 14.8 | 13.4 | 12.4 | 11.4 | 10.6 | 9.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 14.2 | 12.5 | 11.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 15.8 | 15.3 | 14.8 | 14.4 | 14.0 | 13.6 | 12.8 | 12.2 | 11.6 | 11.1 | 10.6 | 10.1 | 9.7 | 9.3 | 8.8 | 60 |
| 2 | 15.6 | 14.9 | 14.3 | 13.7 | 13.2 | 12.7 | 11.8 | 11.0 | 10.4 | 9.8 | 9.2 | 8.7 | 8.3 | 7.9 | 7.4 | |
| 3 | 15.4 | 14.6 | 13.9 | 13.2 | 12.6 | 12.1 | 11.1 | 10.3 | 9.6 | 8.9 | 8.4 | 7.9 | 7.5 | 7.1 | 6.6 | |
| 4 | 15.3 | 14.4 | 13.6 | 12.8 | 12.2 | 11.6 | 10.6 | 9.7 | 9.0 | 8.4 | 7.8 | 7.3 | 6.9 | 6.5 | 6.0 | |
| 5 | 15.2 | 14.2 | 13.3 | 12.5 | 11.8 | 11.2 | 10.2 | 9.3 | 8.5 | 7.9 | 7.4 | 6.9 | 6.5 | - | - | |
| 10 | 14.8 | 13.4 | 12.3 | 11.4 | 10.6 | 9.9 | 8.8 | 7.9 | - | - | - | - | - | - | - | |
| 15 | 14.4 | 12.9 | 11.7 | 10.7 | 9.8 | 9.1 | - | - | - | - | - | - | - | - | - | |
| 30 | 13.8 | 11.9 | 10.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 15.7 | 15.2 | 14.6 | 14.1 | 13.7 | 13.2 | 12.4 | 11.7 | 11.1 | 10.5 | 10.0 | 9.6 | 9.1 | 8.7 | 8.2 | 80 |
| 2 | 15.5 | 14.7 | 14.0 | 13.4 | 12.8 | 12.2 | 11.3 | 10.5 | 9.8 | 9.2 | 8.6 | 8.2 | 7.7 | 7.3 | 6.8 | |
| 3 | 15.3 | 14.4 | 13.6 | 12.8 | 12.2 | 11.6 | 10.6 | 9.7 | 9.0 | 8.4 | 7.8 | 7.3 | 6.9 | 6.5 | 6.0 | |
| 4 | 15.2 | 14.1 | 13.2 | 12.4 | 11.7 | 11.1 | 10.0 | 9.1 | 8.4 | 7.8 | 7.2 | 6.8 | 6.3 | 6.0 | 5.5 | |
| 5 | 15.0 | 13.9 | 12.9 | 12.1 | 11.3 | 10.7 | 9.6 | 8.7 | 7.9 | 7.3 | 6.8 | 6.3 | 5.9 | - | - | |
| 10 | 14.5 | 13.1 | 11.9 | 10.9 | 10.1 | 9.4 | 8.2 | 7.3 | - | - | - | - | - | - | - | |
| 15 | 14.2 | 12.5 | 11.2 | 10.2 | 9.3 | 8.5 | - | - | - | - | - | - | - | - | - | |
| 30 | 13.4 | 11.4 | 9.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 15.7 | 15.0 | 14.4 | 13.9 | 13.4 | 12.9 | 12.1 | 11.3 | 10.7 | 10.1 | 9.6 | 9.1 | 8.7 | 8.3 | 7.5 | 100 |
| 2 | 15.4 | 14.5 | 13.8 | 13.1 | 12.5 | 11.9 | 10.9 | 10.1 | 9.4 | 8.7 | 8.2 | 7.7 | 7.3 | 6.9 | 6.1 | |
| 3 | 15.2 | 14.2 | 13.3 | 12.5 | 11.8 | 11.2 | 10.1 | 9.3 | 8.5 | 7.9 | 7.4 | 6.9 | 6.5 | 6.1 | 5.6 | |
| 4 | 15.0 | 13.9 | 12.9 | 12.1 | 11.3 | 10.7 | 9.6 | 8.7 | 7.9 | 7.3 | 6.8 | 6.3 | 5.9 | 5.6 | 5.1 | |
| 5 | 14.9 | 13.7 | 12.6 | 11.7 | 11.0 | 10.3 | 9.1 | 8.2 | 7.5 | 6.9 | 6.3 | 5.9 | 5.5 | - | - | |
| 10 | 14.3 | 12.8 | 11.5 | 10.5 | 9.6 | 8.9 | 7.7 | 6.8 | - | - | - | - | - | - | - | |
| 15 | 14.0 | 12.2 | 10.8 | 9.7 | 8.8 | 8.1 | - | - | - | - | - | - | - | - | - | |
| 30 | 13.2 | 11.0 | 9.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 15.5 | 14.8 | 14.1 | 13.4 | 12.9 | 12.3 | 11.4 | 10.6 | 9.9 | 9.3 | 8.8 | 8.3 | 7.4 | 6.8 | 5.9 | 150 |
| 2 | 15.2 | 14.2 | 13.3 | 12.5 | 11.8 | 11.2 | 10.1 | 9.3 | 8.5 | 7.9 | 7.1 | 6.3 | 5.6 | 5.1 | 4.5 | |
| 3 | 14.9 | 13.8 | 12.8 | 11.9 | 11.1 | 10.5 | 9.4 | 8.4 | 7.7 | 7.1 | 6.3 | 5.6 | 5.0 | 4.6 | 4.0 | |
| 4 | 14.8 | 13.4 | 12.3 | 11.4 | 10.6 | 9.9 | 8.8 | 7.9 | 7.1 | 6.5 | 5.9 | 5.3 | 4.8 | 4.3 | 3.8 | |
| 5 | 14.6 | 13.2 | 12.0 | 11.0 | 10.2 | 9.5 | 8.3 | 7.4 | 6.7 | 6.1 | 5.6 | 5.1 | 4.6 | - | - | |
| 10 | 14.0 | 12.2 | 10.8 | 9.7 | 8.8 | 8.1 | 6.9 | 6.0 | - | - | - | - | - | - | - | |
| 15 | 13.5 | 11.5 | 10.0 | 8.9 | 8.0 | 7.3 | - | - | - | - | - | - | - | - | - | |
| 30 | 12.6 | 10.3 | 8.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 15.2 | 14.2 | 13.3 | 12.5 | 11.8 | 11.2 | 10.1 | 9.3 | 8.5 | 7.9 | 6.9 | 6.1 | 5.5 | 5.0 | 4.4 | 300 |
| 2 | 14.8 | 13.4 | 12.3 | 11.4 | 10.6 | 9.9 | 8.8 | 7.4 | 6.2 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | |
| 3 | 14.4 | 12.9 | 11.7 | 10.7 | 9.8 | 9.1 | 7.8 | 6.2 | 5.2 | 4.5 | 3.9 | 3.5 | 3.1 | 2.8 | 2.5 | |
| 4 | 14.2 | 12.5 | 11.2 | 10.1 | 9.3 | 8.5 | 7.1 | 5.6 | 4.7 | 4.0 | 3.5 | 3.1 | 2.8 | 2.6 | 2.3 | |
| 5 | 14.0 | 12.2 | 10.8 | 9.7 | 8.8 | 8.1 | 6.6 | 5.3 | 4.4 | 3.8 | 3.3 | 2.9 | 2.6 | - | - | |
| 10 | 13.2 | 11.0 | 9.5 | 8.3 | 7.4 | 6.7 | 5.6 | 4.6 | - | - | - | - | - | - | - | |
| 15 | 12.6 | 10.3 | 8.7 | 7.5 | 6.6 | 5.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 11.5 | 8.9 | 7.3 | - | - | - | - | - | - | - | - | - | - | - | - | |



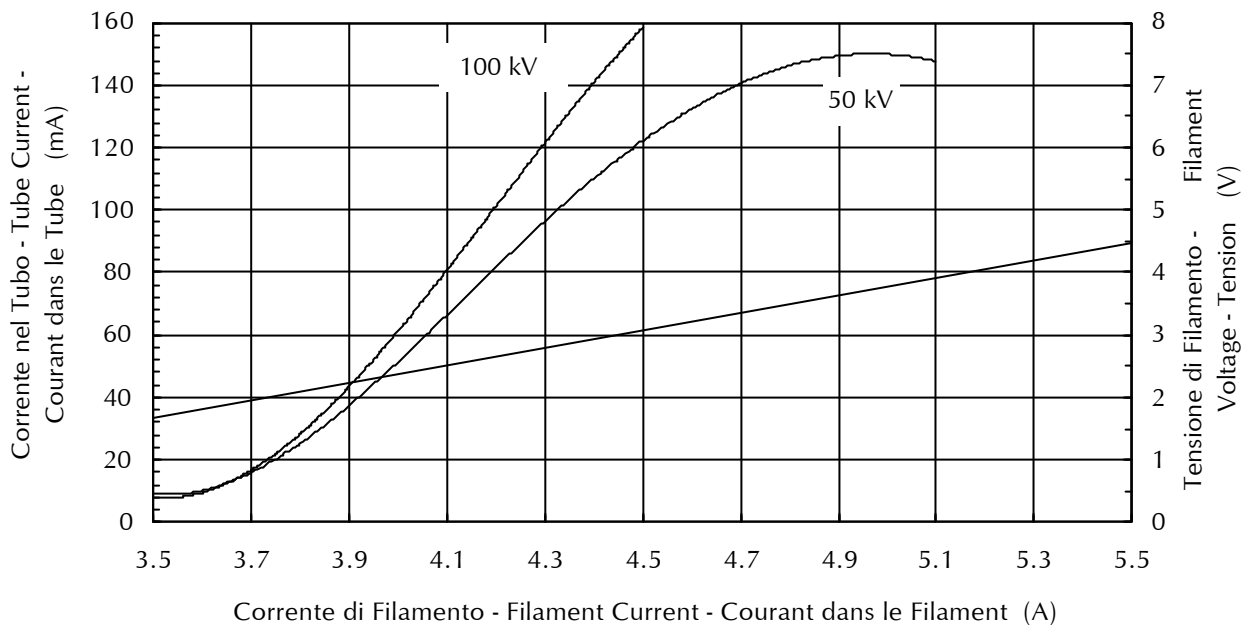
Abaco per carichi in serie - Serial load rating - Abaque de charges successives

■ **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 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 | 55.0 | 53.2 | 52.1 | 51.3 | 50.6 | 49.9 | 48.9 | 48.0 | 47.2 | 46.6 | 45.9 | 45.4 | 44.7 | 43.8 | 42.4 | 5 |
| 2 | 55.0 | 53.2 | 52.1 | 51.3 | 50.6 | 49.9 | 48.9 | 47.8 | 46.2 | 44.8 | 43.5 | 42.2 | 41.0 | 39.9 | 38.3 | |
| 3 | 55.0 | 53.2 | 52.1 | 51.3 | 50.6 | 49.9 | 47.9 | 46.1 | 44.3 | 42.8 | 41.3 | 39.9 | 38.6 | 37.4 | 35.7 | |
| 4 | 55.0 | 53.2 | 52.1 | 51.3 | 50.2 | 49.0 | 46.8 | 44.7 | 42.9 | 41.2 | 39.6 | 38.1 | 36.7 | 35.5 | 33.7 | |
| 5 | 55.0 | 53.2 | 52.1 | 50.9 | 49.5 | 48.2 | 45.8 | 43.6 | 41.6 | 39.8 | 38.2 | 36.7 | 35.3 | - | - | |
| 10 | 54.8 | 52.6 | 50.5 | 48.6 | 46.9 | 45.3 | 42.3 | 39.8 | - | - | - | - | - | - | - | |
| 15 | 54.3 | 51.6 | 49.3 | 47.1 | 45.1 | 43.3 | - | - | - | - | - | - | - | - | - | |
| 30 | 53.2 | 49.7 | 46.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 55.0 | 53.2 | 52.1 | 51.3 | 50.6 | 49.9 | 48.9 | 47.8 | 46.2 | 44.8 | 43.5 | 42.2 | 41.0 | 39.9 | 38.3 | 10 |
| 2 | 55.0 | 53.2 | 52.1 | 51.3 | 50.2 | 49.0 | 46.8 | 44.7 | 42.9 | 41.1 | 39.5 | 38.1 | 36.7 | 35.5 | 33.7 | |
| 3 | 55.0 | 53.2 | 51.9 | 50.3 | 48.8 | 47.5 | 44.9 | 42.6 | 40.6 | 38.7 | 37.0 | 35.4 | 34.0 | 32.7 | 30.9 | |
| 4 | 55.0 | 53.0 | 51.1 | 49.4 | 47.8 | 46.2 | 43.5 | 41.0 | 38.8 | 36.9 | 35.1 | 33.5 | 32.0 | 30.6 | 28.8 | |
| 5 | 54.8 | 52.5 | 50.5 | 48.6 | 46.9 | 45.2 | 42.3 | 39.7 | 37.4 | 35.4 | 33.6 | 31.9 | 30.4 | - | - | |
| 10 | 53.8 | 50.9 | 48.2 | 45.8 | 43.6 | 41.6 | 38.2 | 35.3 | - | - | - | - | - | - | - | |
| 15 | 53.1 | 49.6 | 46.6 | 43.8 | 41.4 | 39.3 | - | - | - | - | - | - | - | - | - | |
| 30 | 51.6 | 47.1 | 43.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 55.0 | 53.2 | 52.1 | 51.3 | 50.2 | 49.0 | 46.7 | 44.7 | 42.8 | 41.1 | 39.5 | 36.1 | 32.5 | 29.5 | 26.0 | 20 |
| 2 | 55.0 | 53.0 | 51.1 | 49.4 | 47.8 | 46.2 | 43.5 | 41.0 | 38.8 | 36.8 | 35.1 | 33.5 | 30.7 | 27.9 | 24.6 | |
| 3 | 54.5 | 52.1 | 49.9 | 47.9 | 46.1 | 44.3 | 41.3 | 38.6 | 36.2 | 34.1 | 32.3 | 30.6 | 29.1 | 27.4 | 24.1 | |
| 4 | 54.2 | 51.4 | 49.0 | 46.8 | 44.7 | 42.9 | 39.5 | 36.7 | 34.3 | 32.1 | 30.2 | 28.5 | 27.0 | 25.7 | 23.9 | |
| 5 | 53.8 | 50.8 | 48.2 | 45.8 | 43.6 | 41.6 | 38.2 | 35.2 | 32.7 | 30.5 | 28.6 | 27.0 | 25.5 | - | - | |
| 10 | 52.5 | 48.6 | 45.2 | 42.3 | 39.7 | 37.4 | 33.6 | 30.4 | - | - | - | - | - | - | - | |
| 15 | 51.6 | 47.0 | 43.2 | 40.0 | 37.2 | 34.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 49.6 | 43.8 | 39.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 55.0 | 53.0 | 51.1 | 49.4 | 47.8 | 46.2 | 43.5 | 36.1 | 30.1 | 25.8 | 22.5 | 20.0 | 18.0 | 16.4 | 14.4 | 40 |
| 2 | 54.2 | 51.4 | 49.0 | 46.7 | 44.7 | 42.8 | 39.5 | 32.5 | 27.1 | 23.2 | 20.3 | 18.1 | 16.3 | 14.8 | 13.0 | |
| 3 | 53.5 | 50.3 | 47.5 | 44.9 | 42.6 | 40.6 | 37.0 | 31.3 | 26.1 | 22.4 | 19.6 | 17.4 | 15.7 | 14.2 | 12.5 | |
| 4 | 53.0 | 49.4 | 46.2 | 43.5 | 41.0 | 38.8 | 35.1 | 30.7 | 25.6 | 21.9 | 19.2 | 17.1 | 15.4 | 14.0 | 12.3 | |
| 5 | 52.5 | 48.6 | 45.2 | 42.3 | 39.7 | 37.4 | 33.5 | 30.4 | 25.3 | 21.7 | 19.0 | 16.9 | 15.2 | - | - | |
| 10 | 50.8 | 45.8 | 41.6 | 38.2 | 35.2 | 32.7 | 28.6 | 25.5 | - | - | - | - | - | - | - | |
| 15 | 49.6 | 43.8 | 39.2 | 35.5 | 32.4 | 29.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 47.0 | 40.0 | 34.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 54.5 | 52.1 | 49.9 | 47.9 | 46.1 | 44.0 | 33.0 | 26.4 | 22.0 | 18.9 | 16.5 | 14.7 | 13.2 | 12.0 | 10.6 | 60 |
| 2 | 53.5 | 50.3 | 47.5 | 44.9 | 42.6 | 38.1 | 28.6 | 22.9 | 19.0 | 16.3 | 14.3 | 12.7 | 11.4 | 10.4 | 9.1 | |
| 3 | 52.8 | 49.0 | 45.7 | 42.8 | 40.3 | 36.1 | 27.1 | 21.7 | 18.1 | 15.5 | 13.5 | 12.0 | 10.8 | 9.8 | 8.7 | |
| 4 | 52.1 | 47.9 | 44.3 | 41.2 | 38.6 | 35.1 | 26.3 | 21.1 | 17.6 | 15.1 | 13.2 | 11.7 | 10.5 | 9.6 | 8.4 | |
| 5 | 51.6 | 47.0 | 43.2 | 39.9 | 37.1 | 34.5 | 25.9 | 20.7 | 17.3 | 14.8 | 12.9 | 11.5 | 10.4 | - | - | |
| 10 | 49.6 | 43.8 | 39.2 | 35.5 | 32.4 | 29.8 | 25.0 | 20.0 | - | - | - | - | - | - | - | |
| 15 | 48.2 | 41.6 | 36.6 | 32.7 | 29.6 | 27.0 | - | - | - | - | - | - | - | - | - | |
| 30 | 45.2 | 37.4 | 31.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 54.2 | 51.4 | 49.0 | 46.7 | 43.2 | 36.0 | 27.0 | 21.6 | 18.0 | 15.4 | 13.5 | 12.0 | 10.8 | 9.8 | 8.6 | 80 |
| 2 | 53.0 | 49.4 | 46.2 | 43.5 | 36.1 | 30.1 | 22.5 | 18.0 | 15.0 | 12.9 | 11.3 | 10.0 | 9.0 | 8.2 | 7.2 | |
| 3 | 52.1 | 47.9 | 44.3 | 41.2 | 33.7 | 28.1 | 21.1 | 16.8 | 14.0 | 12.0 | 10.5 | 9.4 | 8.4 | 7.7 | 6.7 | |
| 4 | 51.4 | 46.7 | 42.8 | 39.5 | 32.5 | 27.1 | 20.3 | 16.3 | 13.5 | 11.6 | 10.2 | 9.0 | 8.1 | 7.4 | 6.5 | |
| 5 | 50.8 | 45.8 | 41.6 | 38.2 | 31.8 | 26.5 | 19.9 | 15.9 | 13.2 | 11.4 | 9.9 | 8.8 | 7.9 | - | - | |
| 10 | 48.6 | 42.3 | 37.4 | 33.5 | 30.4 | 25.3 | 19.0 | 15.2 | - | - | - | - | - | - | - | |
| 15 | 47.0 | 39.9 | 34.7 | 30.7 | 27.5 | 24.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 43.8 | 35.5 | 29.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 53.8 | 50.8 | 48.2 | 45.8 | 37.4 | 31.2 | 23.4 | 18.7 | 15.6 | 13.4 | 11.7 | 10.4 | 9.4 | 8.5 | 7.5 | 100 |
| 2 | 52.5 | 48.6 | 45.2 | 37.9 | 30.3 | 25.2 | 18.9 | 15.1 | 12.6 | 10.8 | 9.5 | 8.4 | 7.6 | 6.9 | 6.1 | |
| 3 | 51.6 | 47.0 | 43.2 | 34.9 | 27.9 | 23.3 | 17.4 | 14.0 | 11.6 | 10.0 | 8.7 | 7.8 | 7.0 | 6.3 | 5.6 | |
| 4 | 50.8 | 45.8 | 41.6 | 33.4 | 26.7 | 22.3 | 16.7 | 13.4 | 11.1 | 9.5 | 8.3 | 7.4 | 6.7 | 6.1 | 5.3 | |
| 5 | 50.2 | 44.7 | 40.3 | 32.5 | 26.0 | 21.7 | 16.3 | 13.0 | 10.8 | 9.3 | 8.1 | 7.2 | 6.5 | - | - | |
| 10 | 47.8 | 41.0 | 35.9 | 30.7 | 24.6 | 20.5 | 15.4 | 12.3 | - | - | - | - | - | - | - | |
| 15 | 46.1 | 38.6 | 33.2 | 29.1 | 24.1 | 20.1 | - | - | - | - | - | - | - | - | - | |
| 30 | 42.6 | 34.0 | 28.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 53.1 | 49.6 | 46.5 | 37.1 | 29.7 | 24.8 | 18.6 | 14.9 | 12.4 | 10.6 | 9.3 | 8.3 | 7.4 | 6.8 | 5.9 | 150 |
| 2 | 51.6 | 47.0 | 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 | 50.5 | 45.2 | 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 | 49.6 | 43.8 | 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 | 48.8 | 42.6 | 30.5 | 22.9 | 18.3 | 15.2 | 11.4 | 9.1 | 7.6 | 6.5 | 5.7 | 5.1 | 4.6 | - | - | |
| 10 | 46.1 | 38.6 | 28.1 | 21.1 | 16.9 | 14.0 | 10.5 | 8.4 | - | - | - | - | - | - | - | |
| 15 | 44.1 | 35.9 | 27.3 | 20.5 | 16.4 | 13.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 40.3 | 31.1 | 25.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 51.6 | 47.0 | 36.7 | 27.5 | 22.0 | 18.3 | 13.7 | 11.0 | 9.2 | 7.9 | 6.9 | 6.1 | 5.5 | 5.0 | 4.4 | 300 |
| 2 | 49.6 | 37.1 | 24.8 | 18.6 | 14.9 | 12.4 | 9.3 | 7.4 | 6.2 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | |
| 3 | 48.2 | 31.2 | 20.8 | 15.6 | 12.5 | 10.4 | 7.8 | 6.2 | 5.2 | 4.5 | 3.9 | 3.5 | 3.1 | 2.8 | 2.5 | |
| 4 | 47.0 | 28.2 | 18.8 | 14.1 | 11.3 | 9.4 | 7.1 | 5.6 | 4.7 | 4.0 | 3.5 | 3.1 | 2.8 | 2.6 | 2.3 | |
| 5 | 46.1 | 26.4 | 17.6 | 13.2 | 10.6 | 8.8 | 6.6 | 5.3 | 4.4 | 3.8 | 3.3 | 2.9 | 2.6 | - | - | |
| 10 | 42.6 | 22.9 | 15.2 | 11.4 | 9.1 | 7.6 | 5.7 | 4.6 | - | - | - | - | - | - | - | |
| 15 | 40.3 | 21.7 | 14.4 | 10.8 | 8.7 | 7.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 35.9 | 20.5 | 13.7 | - | - | - | - | - | - | - | - | - | - | - | - | |



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)

