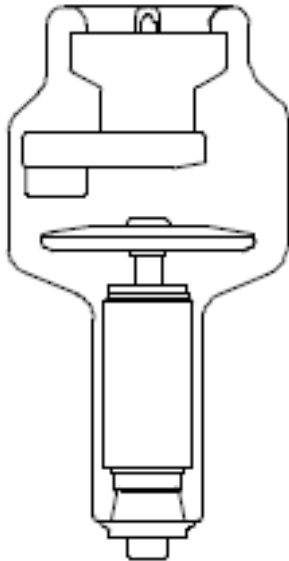


X50 H 0.6 / 1.2

Tubo N°



CE 0051

El contenido de esta documentación debe ser transmitido al usuario del ensamblaje del tubo

| Documentación N° | Versión | Fecha de Edición | Texto original |
|------------------|---------|------------------|----------------|
| 50_H6C | 0 | 18.09.98 | Italiano |





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Declaración de conformidad

Este tubo cumple con los requerimientos esenciales de la Directiva 93/42/CEE, de acuerdo con la norma EN 60613 (IEC 613) y EN 60336 (IEC 336).

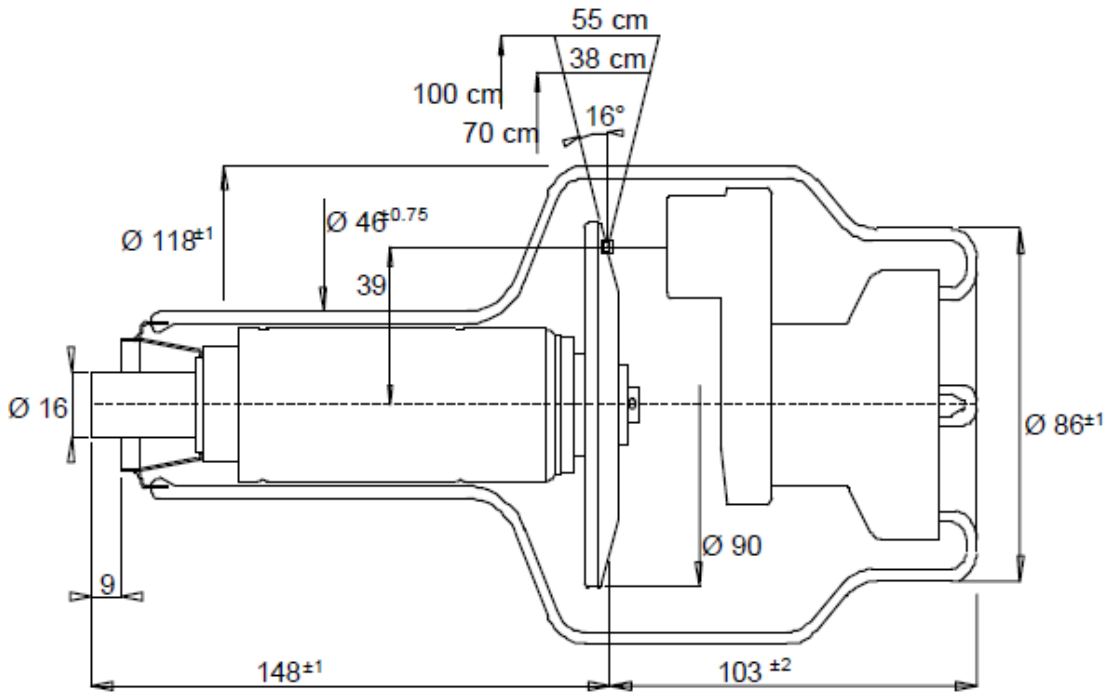
Especificaciones

| | | |
|---------------------------------------|--|---------------------|
| Punto Focal |  0.6  1.2 | (IEC 336, EN 60336) |
| Velocidad del ánodo | 3000 min ⁻¹ | |
| Potencia nominal de entrada del ánodo |  11 kW  30 kW | (IEC 613, EN 60613) |
| Diámetro del ánodo | 90 mm | |
| Material del ánodo | T | |
| Angulo del ánodo | 16° | |
| Campo de radiación | a 70 cm 38 cm a 100 cm 55 cm | |
| Filtración inherente | 0.7 mm Al eq | (IEC 522) |
| Máximo contenido de calor del ánodo | 105 kJ 140 kHU | |
| Máxima disipación de Calor continua | 440 W | |
| Voltaje Nominal del tubo de Rayos X | 150 kV | |
| Máxima corriente del filamento | 5.4 A | |

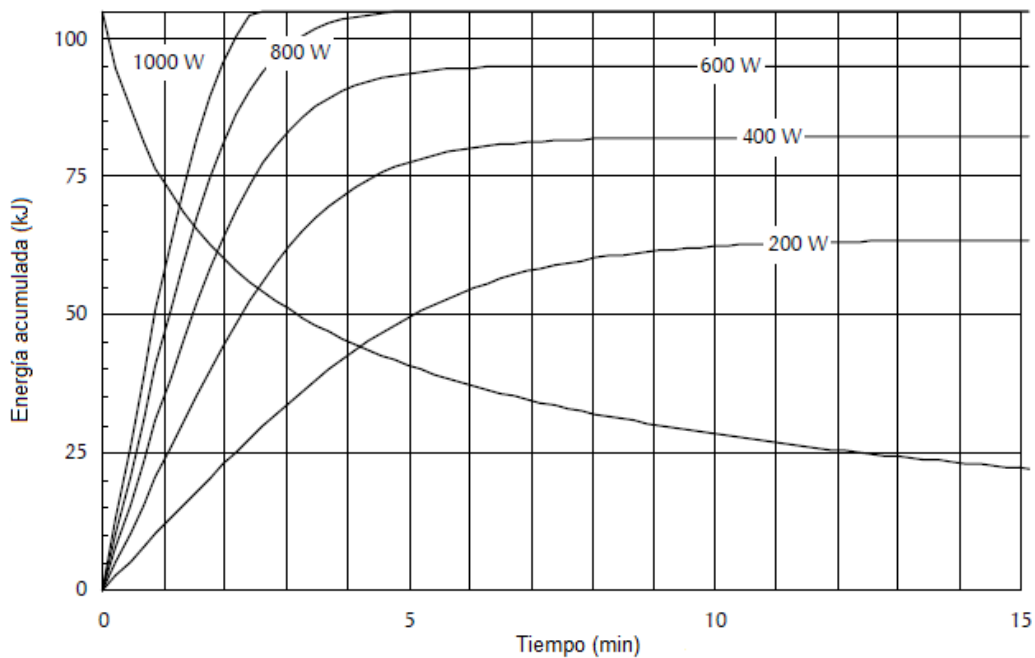
El dato indicado en este documento se refiere a:

Equivalencia de la potencia de entrada del ánodo 100 W = % máximo de contenido de calor 47 %

Dimensiones

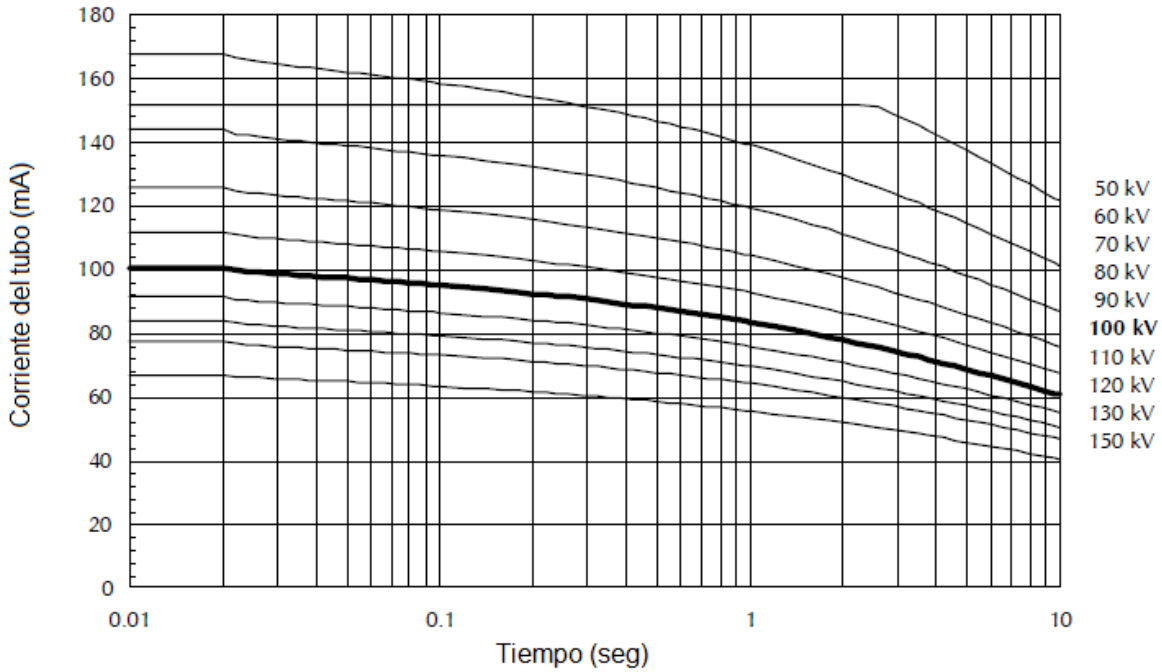


Curvas de calefacción y enfriamiento del ánodo



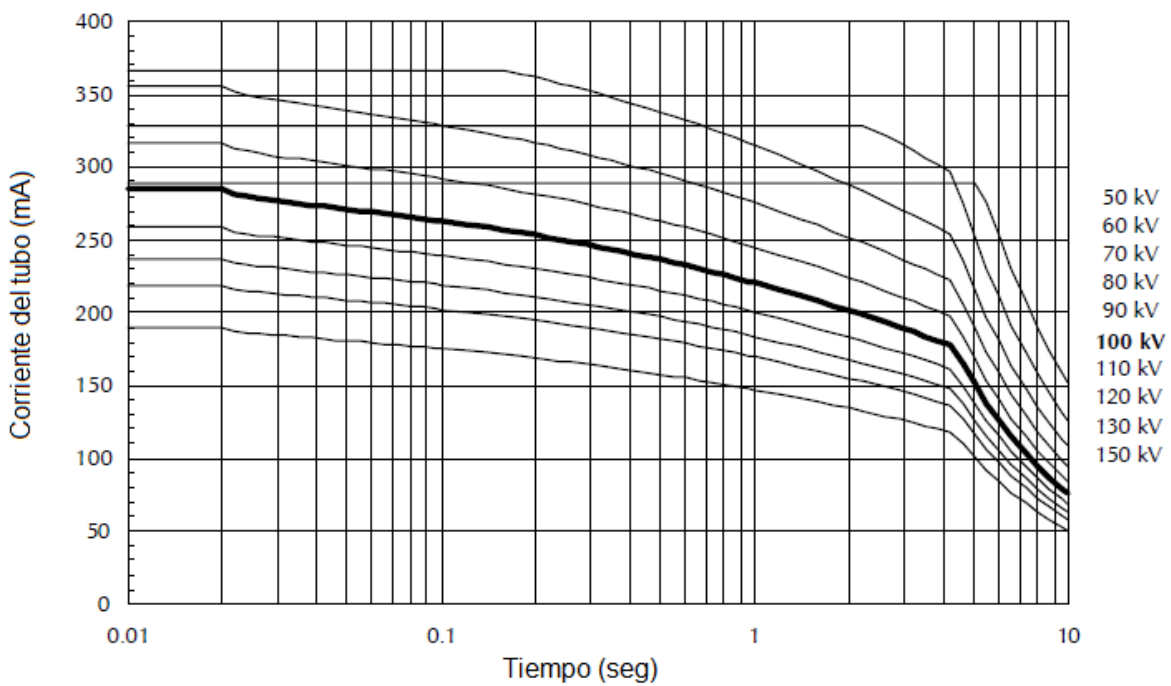
Capacidad de carga individual

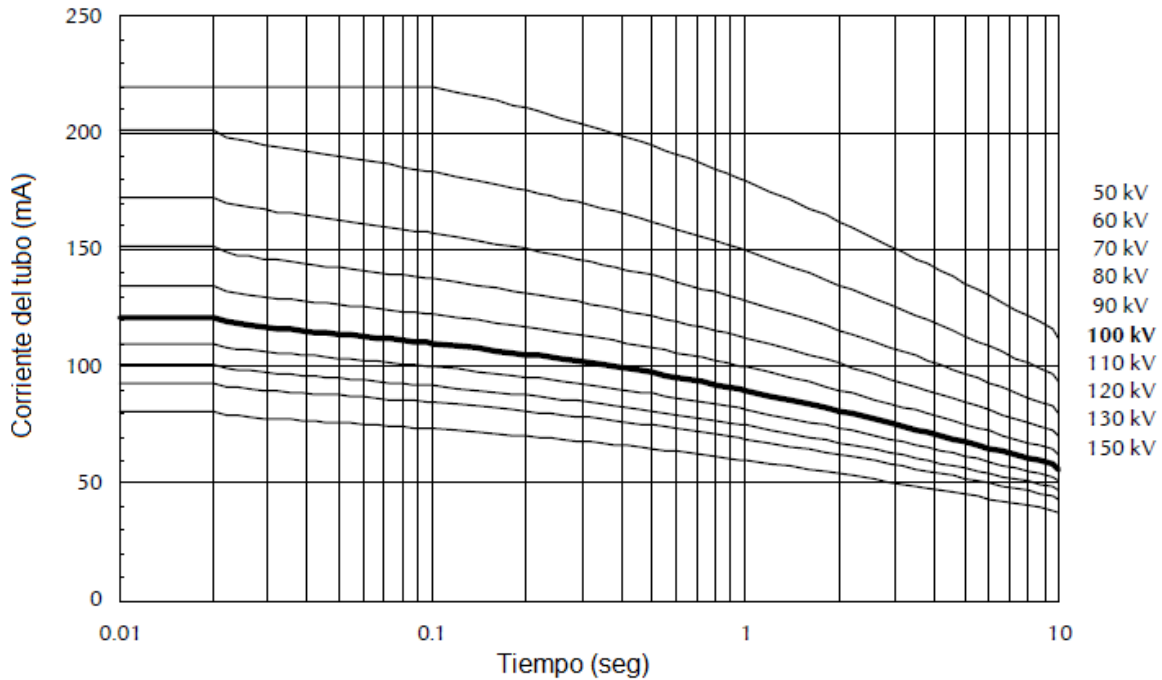
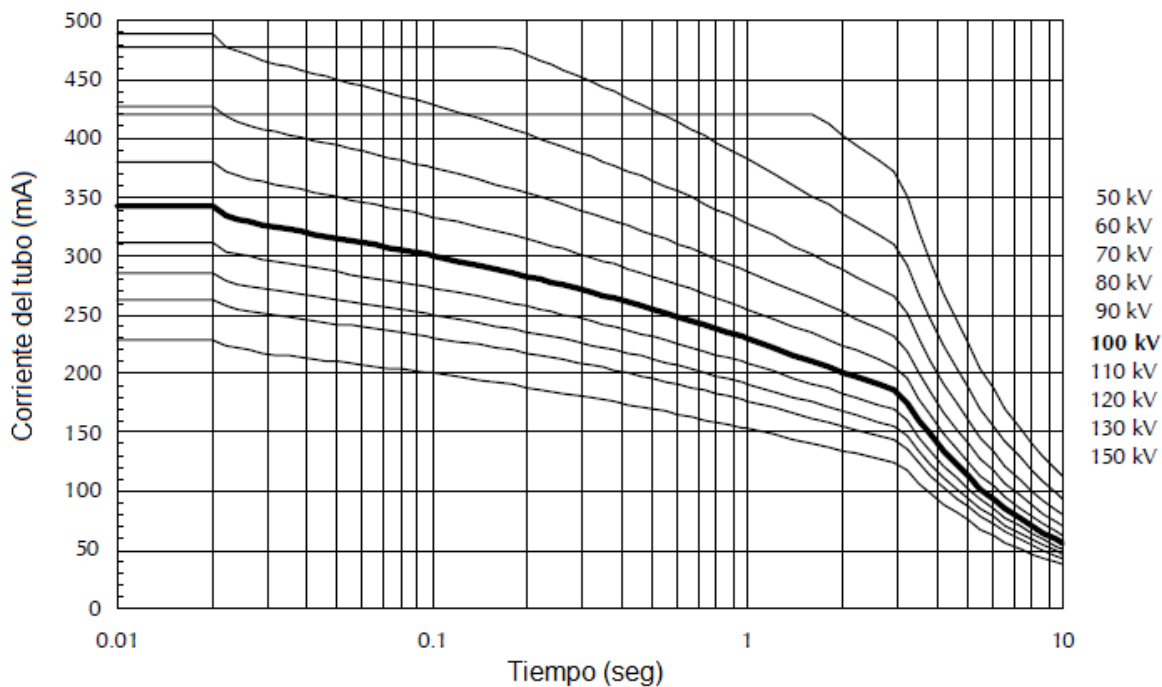
■ 0.6 – 1 ~ - 3000 min⁻¹



Capacidad de carga individual

■ 1.2 – 1 ~ - 3000 min⁻¹



Capacidad de carga individual**▣ 0.6 – 3 ~ - 3000 min⁻¹****Capacidad de carga individual****■ 1.2 – 3 ~ - 3000 min⁻¹**

Serie capacidad de carga
■ 0.6 – 1 ~ - 3000 min⁻¹

| Potencia de entrada del ánodo como una función de n (N° de exposiciones en serie), z (tasa de exposición por segundo), tiempo de exposición (seg) | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 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 | 8.0 | 8.0 | 7.8 | 7.7 | 7.7 | 7.6 | 7.5 | 7.4 | 7.4 | 7.3 | 7.3 | 7.2 | 7.1 | 7.0 | 6.9 | 5 |
| 2 | 7.9 | 7.9 | 7.8 | 7.7 | 7.7 | 7.6 | 7.5 | 7.4 | 7.3 | 7.1 | 7.0 | 6.9 | 6.8 | 6.7 | 6.6 | |
| 3 | 7.9 | 7.9 | 7.8 | 7.7 | 7.6 | 7.6 | 7.4 | 7.2 | 7.1 | 7.0 | 6.8 | 6.7 | 6.6 | 6.5 | 6.3 | |
| 4 | 7.9 | 7.9 | 7.8 | 7.7 | 7.6 | 7.5 | 7.3 | 7.1 | 7.0 | 6.8 | 6.7 | 6.5 | 6.4 | 6.3 | 6.1 | |
| 5 | 7.8 | 7.8 | 7.7 | 7.6 | 7.5 | 7.4 | 7.2 | 7.0 | 6.9 | 6.7 | 6.5 | 6.4 | 6.3 | - | - | |
| 10 | 7.8 | 7.7 | 7.6 | 7.5 | 7.3 | 7.2 | 6.9 | 6.7 | - | - | - | - | - | - | - | |
| 30 | 7.8 | 7.7 | 7.5 | 7.3 | 7.2 | 7.0 | - | - | - | - | - | - | - | - | - | |
| 1 | 7.9 | 7.9 | 7.8 | 7.7 | 7.7 | 7.6 | 7.5 | 7.4 | 7.3 | 7.1 | 7.0 | 6.9 | 6.8 | 6.7 | 6.6 | 10 |
| 2 | 7.9 | 7.9 | 7.8 | 7.7 | 7.6 | 7.5 | 7.3 | 7.1 | 7.0 | 6.8 | 6.7 | 6.5 | 6.4 | 6.3 | 6.1 | |
| 3 | 7.8 | 7.8 | 7.7 | 7.6 | 7.5 | 7.4 | 7.1 | 7.0 | 6.8 | 6.6 | 6.4 | 6.3 | 6.1 | 6.0 | 5.8 | |
| 4 | 7.8 | 7.8 | 7.6 | 7.5 | 7.4 | 7.3 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.1 | 5.9 | 5.7 | 5.5 | |
| 5 | 7.8 | 7.7 | 7.6 | 7.4 | 7.3 | 7.2 | 6.9 | 6.7 | 6.5 | 6.3 | 6.1 | 5.9 | 5.7 | - | - | |
| 10 | 7.8 | 7.6 | 7.4 | 7.2 | 7.0 | 6.9 | 6.5 | 6.3 | - | - | - | - | - | - | - | |
| 30 | 7.8 | 7.5 | 7.3 | 7.1 | 6.9 | 6.7 | - | - | - | - | - | - | - | - | - | |
| 1 | 7.9 | 7.9 | 7.8 | 7.7 | 7.6 | 7.5 | 7.3 | 7.1 | 7.0 | 6.8 | 6.7 | 6.5 | 6.4 | 6.3 | 6.1 | 20 |
| 2 | 7.8 | 7.8 | 7.6 | 7.5 | 7.4 | 7.3 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.1 | 5.9 | 5.7 | 5.5 | |
| 3 | 7.8 | 7.7 | 7.5 | 7.4 | 7.2 | 7.1 | 6.8 | 6.6 | 6.3 | 6.1 | 5.9 | 5.7 | 5.6 | 5.4 | 5.2 | |
| 4 | 7.8 | 7.7 | 7.5 | 7.3 | 7.1 | 7.0 | 6.7 | 6.4 | 6.1 | 5.9 | 5.7 | 5.5 | 5.3 | 5.1 | 4.9 | |
| 5 | 7.8 | 7.6 | 7.4 | 7.2 | 7.0 | 6.9 | 6.5 | 6.2 | 6.0 | 5.7 | 5.5 | 5.3 | 5.1 | - | - | |
| 10 | 7.7 | 7.4 | 7.2 | 6.9 | 6.7 | 6.5 | 6.1 | 5.7 | - | - | - | - | - | - | - | |
| 30 | 7.7 | 7.3 | 7.0 | 6.7 | 6.4 | 6.2 | - | - | - | - | - | - | - | - | - | |
| 1 | 7.8 | 7.8 | 7.6 | 7.5 | 7.4 | 7.3 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.1 | 5.9 | 5.7 | 5.5 | 40 |
| 2 | 7.8 | 7.7 | 7.5 | 7.3 | 7.1 | 7.0 | 6.7 | 6.4 | 6.1 | 5.9 | 5.7 | 5.5 | 5.3 | 5.1 | 4.9 | |
| 3 | 7.8 | 7.6 | 7.4 | 7.1 | 6.9 | 6.8 | 6.4 | 6.1 | 5.8 | 5.6 | 5.3 | 5.1 | 4.9 | 4.7 | 4.5 | |
| 4 | 7.8 | 7.5 | 7.3 | 7.0 | 6.8 | 6.6 | 6.2 | 5.9 | 5.6 | 5.3 | 5.1 | 4.8 | 4.6 | 4.5 | 4.2 | |
| 5 | 7.7 | 7.4 | 7.2 | 6.9 | 6.7 | 6.5 | 6.1 | 5.7 | 5.4 | 5.1 | 4.9 | 4.6 | 4.4 | - | - | |
| 10 | 7.6 | 7.2 | 6.9 | 6.5 | 6.2 | 6.0 | 5.5 | 5.1 | - | - | - | - | - | - | - | |
| 30 | 7.5 | 7.1 | 6.6 | 6.3 | 5.9 | 5.6 | - | - | - | - | - | - | - | - | - | |
| 1 | 7.8 | 7.7 | 7.5 | 7.4 | 7.2 | 7.1 | 6.8 | 6.6 | 6.3 | 6.1 | 5.9 | 5.7 | 5.2 | 4.7 | 4.2 | 60 |
| 2 | 7.8 | 7.6 | 7.4 | 7.1 | 6.9 | 6.8 | 6.4 | 6.1 | 5.8 | 5.6 | 5.3 | 5.0 | 4.5 | 4.1 | 3.6 | |
| 3 | 7.8 | 7.5 | 7.2 | 7.0 | 6.7 | 6.5 | 6.1 | 5.8 | 5.5 | 5.2 | 5.0 | 4.7 | 4.2 | 3.8 | 3.4 | |
| 4 | 7.7 | 7.4 | 7.1 | 6.8 | 6.6 | 6.3 | 5.9 | 5.6 | 5.2 | 4.9 | 4.7 | 4.4 | 4.1 | 3.7 | 3.3 | |
| 5 | 7.7 | 7.3 | 7.0 | 6.7 | 6.4 | 6.2 | 5.7 | 5.4 | 5.0 | 4.7 | 4.5 | 4.2 | 4.0 | - | - | |
| 10 | 7.5 | 7.1 | 6.6 | 6.3 | 5.9 | 5.6 | 5.1 | 4.7 | - | - | - | - | - | - | - | |
| 30 | 7.4 | 6.9 | 6.4 | 6.0 | 5.6 | 5.3 | - | - | - | - | - | - | - | - | - | |
| 1 | 7.8 | 7.7 | 7.5 | 7.3 | 7.1 | 7.0 | 6.7 | 6.4 | 6.1 | 5.9 | 5.3 | 4.7 | 4.3 | 3.9 | 3.4 | 80 |
| 2 | 7.8 | 7.5 | 7.3 | 7.0 | 6.8 | 6.6 | 6.2 | 5.9 | 5.6 | 5.1 | 4.4 | 3.9 | 3.5 | 3.2 | 2.8 | |
| 3 | 7.7 | 7.4 | 7.1 | 6.8 | 6.6 | 6.3 | 5.9 | 5.6 | 5.2 | 4.7 | 4.1 | 3.7 | 3.3 | 3.0 | 2.6 | |
| 4 | 7.7 | 7.3 | 7.0 | 6.7 | 6.4 | 6.1 | 5.7 | 5.3 | 5.0 | 4.5 | 4.0 | 3.5 | 3.2 | 2.9 | 2.5 | |
| 5 | 7.6 | 7.2 | 6.9 | 6.5 | 6.2 | 6.0 | 5.5 | 5.1 | 4.7 | 4.4 | 3.9 | 3.4 | 3.1 | - | - | |
| 10 | 7.4 | 6.9 | 6.5 | 6.1 | 5.7 | 5.4 | 4.9 | 4.4 | - | - | - | - | - | - | - | |
| 30 | 7.3 | 6.7 | 6.2 | 5.7 | 5.4 | 5.0 | - | - | - | - | - | - | - | - | - | |
| 1 | 7.8 | 7.6 | 7.4 | 7.2 | 7.0 | 6.9 | 6.5 | 6.2 | 6.0 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | 100 |
| 2 | 7.7 | 7.4 | 7.2 | 6.9 | 6.7 | 6.5 | 6.1 | 5.7 | 5.0 | 4.2 | 3.7 | 3.3 | 3.0 | 2.7 | 2.4 | |
| 3 | 7.7 | 7.3 | 7.0 | 6.7 | 6.4 | 6.2 | 5.7 | 5.4 | 4.6 | 3.9 | 3.4 | 3.0 | 2.7 | 2.5 | 2.2 | |
| 4 | 7.6 | 7.2 | 6.9 | 6.5 | 6.2 | 6.0 | 5.5 | 5.1 | 4.4 | 3.7 | 3.3 | 2.9 | 2.6 | 2.4 | 2.1 | |
| 5 | 7.6 | 7.1 | 6.7 | 6.4 | 6.1 | 5.8 | 5.3 | 4.9 | 4.2 | 3.6 | 3.2 | 2.8 | 2.5 | - | - | |
| 10 | 7.4 | 6.8 | 6.3 | 5.9 | 5.5 | 5.2 | 4.6 | 4.2 | - | - | - | - | - | - | - | |
| 30 | 7.2 | 6.6 | 6.0 | 5.6 | 5.2 | 4.8 | - | - | - | - | - | - | - | - | - | |
| 1 | 7.8 | 7.5 | 7.3 | 7.1 | 6.8 | 6.6 | 6.3 | 5.9 | 4.9 | 4.2 | 3.7 | 3.3 | 3.0 | 2.7 | 2.4 | 150 |
| 2 | 7.7 | 7.3 | 7.0 | 6.7 | 6.4 | 6.2 | 5.6 | 4.4 | 3.7 | 3.2 | 2.8 | 2.5 | 2.2 | 2.0 | 1.8 | |
| 3 | 7.6 | 7.2 | 6.8 | 6.5 | 6.2 | 5.9 | 5.0 | 4.0 | 3.3 | 2.8 | 2.5 | 2.2 | 2.0 | 1.8 | 1.6 | |
| 4 | 7.5 | 7.1 | 6.6 | 6.3 | 5.9 | 5.6 | 4.7 | 3.7 | 3.1 | 2.7 | 2.3 | 2.1 | 1.9 | 1.7 | 1.5 | |
| 5 | 7.5 | 6.9 | 6.5 | 6.1 | 5.8 | 5.4 | 4.5 | 3.6 | 3.0 | 2.6 | 2.2 | 2.0 | 1.8 | - | - | |
| 10 | 7.2 | 6.6 | 6.0 | 5.6 | 5.2 | 4.8 | 4.1 | 3.3 | - | - | - | - | - | - | - | |
| 30 | 6.7 | 6.3 | 5.7 | 5.2 | 4.8 | 4.4 | - | - | - | - | - | - | - | - | - | |
| 1 | 7.7 | 7.3 | 7.0 | 6.7 | 6.4 | 6.2 | 5.5 | 4.4 | 3.7 | 3.1 | 2.8 | 2.4 | 2.2 | 2.0 | 1.8 | 300 |
| 2 | 7.5 | 7.1 | 6.6 | 6.3 | 5.9 | 4.9 | 3.7 | 3.0 | 2.5 | 2.1 | 1.8 | 1.6 | 1.5 | 1.3 | 1.2 | |
| 3 | 7.4 | 6.9 | 6.4 | 6.0 | 4.9 | 4.1 | 3.1 | 2.5 | 2.1 | 1.8 | 1.5 | 1.4 | 1.2 | 1.1 | 1.0 | |
| 4 | 7.3 | 6.7 | 6.2 | 5.6 | 4.4 | 3.7 | 2.8 | 2.2 | 1.9 | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 | 0.9 | |
| 5 | 7.2 | 6.6 | 6.0 | 5.2 | 4.2 | 3.5 | 2.6 | 2.1 | 1.7 | 1.5 | 1.3 | 1.2 | 1.0 | - | - | |
| 10 | 6.9 | 6.1 | 5.4 | 4.5 | 3.6 | 3.0 | 2.2 | 1.8 | - | - | - | - | - | - | - | |
| 30 | 6.3 | 5.2 | 4.4 | - | - | - | - | - | - | - | - | - | - | - | - | |

Serie de capacidad de carga
■ 1.2 – 1 ~ - 3000 min⁻¹

| Potencia de entrada del ánodo como una función de n (N° de exposiciones en serie), z (tasa de exposición por segundo), tiempo de exposición (seg) | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 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 | 21.9 | 21.5 | 21.3 | 21.1 | 20.7 | 20.4 | 20.2 | 19.9 | 19.8 | 19.6 | 19.3 | 19.0 | 18.5 | 5 |
| 2 | 22.2 | 22.2 | 21.9 | 21.5 | 21.3 | 21.1 | 20.7 | 20.2 | 19.7 | 19.3 | 18.9 | 18.5 | 18.1 | 17.7 | 17.2 | |
| 3 | 22.1 | 22.1 | 21.8 | 21.4 | 21.1 | 20.8 | 20.2 | 19.7 | 19.2 | 18.7 | 18.2 | 17.7 | 17.3 | 16.9 | 16.3 | |
| 4 | 22.0 | 22.0 | 21.6 | 21.2 | 20.9 | 20.5 | 19.9 | 19.3 | 18.7 | 18.2 | 17.6 | 17.2 | 16.7 | 16.3 | 15.6 | |
| 5 | 21.9 | 21.9 | 21.5 | 21.1 | 20.7 | 20.3 | 19.6 | 18.9 | 18.3 | 17.7 | 17.2 | 16.7 | 16.2 | - | - | |
| 10 | 21.9 | 21.6 | 21.0 | 20.5 | 19.9 | 19.5 | 18.6 | 17.7 | - | - | - | - | - | - | - | |
| 15 | 21.9 | 21.3 | 20.7 | 20.0 | 19.4 | 18.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 21.8 | 20.8 | 20.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 22.2 | 22.2 | 21.9 | 21.5 | 21.3 | 21.1 | 20.6 | 20.2 | 19.7 | 19.3 | 18.9 | 18.5 | 18.1 | 17.7 | 17.2 | 10 |
| 2 | 22.0 | 22.0 | 21.6 | 21.2 | 20.9 | 20.5 | 19.9 | 19.3 | 18.7 | 18.1 | 17.6 | 17.1 | 16.7 | 16.2 | 15.6 | |
| 3 | 21.9 | 21.8 | 21.4 | 20.9 | 20.5 | 20.1 | 19.3 | 18.6 | 17.9 | 17.3 | 16.8 | 16.2 | 15.7 | 15.2 | 14.6 | |
| 4 | 21.9 | 21.7 | 21.2 | 20.7 | 20.2 | 19.7 | 18.9 | 18.1 | 17.4 | 16.7 | 16.1 | 15.5 | 15.0 | 14.5 | 13.8 | |
| 5 | 21.9 | 21.5 | 21.0 | 20.4 | 19.9 | 19.4 | 18.5 | 17.7 | 16.9 | 16.2 | 15.6 | 15.0 | 14.4 | - | - | |
| 10 | 21.9 | 21.1 | 20.3 | 19.6 | 18.9 | 18.3 | 17.2 | 16.2 | - | - | - | - | - | - | - | |
| 15 | 21.7 | 20.7 | 19.8 | 19.0 | 18.3 | 17.6 | - | - | - | - | - | - | - | - | - | |
| 30 | 21.3 | 20.0 | 18.9 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 22.0 | 22.0 | 21.6 | 21.2 | 20.9 | 20.5 | 19.9 | 19.3 | 18.7 | 18.1 | 15.9 | 14.1 | 12.7 | 11.5 | 10.2 | 20 |
| 2 | 21.9 | 21.7 | 21.1 | 20.6 | 20.2 | 19.7 | 18.9 | 18.1 | 17.4 | 16.7 | 15.0 | 13.3 | 12.0 | 10.9 | 9.6 | |
| 3 | 21.9 | 21.4 | 20.8 | 20.2 | 19.7 | 19.1 | 18.2 | 17.3 | 16.5 | 15.8 | 14.6 | 13.0 | 11.7 | 10.7 | 9.4 | |
| 4 | 21.9 | 21.2 | 20.5 | 19.9 | 19.3 | 18.7 | 17.6 | 16.7 | 15.8 | 15.0 | 14.3 | 12.9 | 11.6 | 10.5 | 9.3 | |
| 5 | 21.9 | 21.1 | 20.3 | 19.6 | 18.9 | 18.3 | 17.2 | 16.2 | 15.3 | 14.5 | 13.8 | 12.8 | 11.5 | - | - | |
| 10 | 21.5 | 20.4 | 19.4 | 18.5 | 17.7 | 16.9 | 15.6 | 14.4 | - | - | - | - | - | - | - | |
| 15 | 21.3 | 20.0 | 18.8 | 17.8 | 16.8 | 16.0 | - | - | - | - | - | - | - | - | - | |
| 30 | 20.7 | 19.0 | 17.6 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 21.9 | 21.7 | 21.1 | 20.6 | 20.2 | 19.7 | 17.7 | 14.1 | 11.8 | 10.1 | 8.8 | 7.9 | 7.1 | 6.4 | 5.7 | 40 |
| 2 | 21.9 | 21.2 | 20.5 | 19.9 | 19.3 | 18.7 | 15.9 | 12.7 | 10.6 | 9.1 | 7.9 | 7.0 | 6.3 | 5.8 | 5.1 | |
| 3 | 21.8 | 20.9 | 20.1 | 19.3 | 18.6 | 17.9 | 15.3 | 12.2 | 10.2 | 8.7 | 7.6 | 6.8 | 6.1 | 5.5 | 4.9 | |
| 4 | 21.7 | 20.6 | 19.7 | 18.9 | 18.1 | 17.4 | 15.0 | 12.0 | 10.0 | 8.5 | 7.5 | 6.6 | 6.0 | 5.4 | 4.8 | |
| 5 | 21.5 | 20.4 | 19.4 | 18.5 | 17.7 | 16.9 | 14.8 | 11.8 | 9.8 | 8.4 | 7.4 | 6.6 | 5.9 | - | - | |
| 10 | 21.1 | 19.6 | 18.3 | 17.2 | 16.2 | 15.3 | 13.8 | 11.5 | - | - | - | - | - | - | - | |
| 15 | 20.7 | 19.0 | 17.5 | 16.3 | 15.2 | 14.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 20.0 | 17.8 | 16.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 21.9 | 21.4 | 20.8 | 20.2 | 19.7 | 17.3 | 13.0 | 10.4 | 8.7 | 7.4 | 6.5 | 5.8 | 5.2 | 4.7 | 4.2 | 60 |
| 2 | 21.8 | 20.9 | 20.1 | 19.3 | 17.9 | 14.9 | 11.2 | 8.9 | 7.5 | 6.4 | 5.6 | 5.0 | 4.5 | 4.1 | 3.6 | |
| 3 | 21.6 | 20.5 | 19.6 | 18.7 | 16.9 | 14.1 | 10.6 | 8.5 | 7.0 | 6.0 | 5.3 | 4.7 | 4.2 | 3.8 | 3.4 | |
| 4 | 21.4 | 20.2 | 19.1 | 18.2 | 16.4 | 13.7 | 10.3 | 8.2 | 6.8 | 5.9 | 5.1 | 4.6 | 4.1 | 3.7 | 3.3 | |
| 5 | 21.3 | 20.0 | 18.8 | 17.7 | 16.1 | 13.5 | 10.1 | 8.1 | 6.7 | 5.8 | 5.0 | 4.5 | 4.0 | - | - | |
| 10 | 20.7 | 19.0 | 17.5 | 16.2 | 15.2 | 13.0 | 9.7 | 7.8 | - | - | - | - | - | - | - | |
| 15 | 20.3 | 18.3 | 16.6 | 15.3 | 14.1 | 12.8 | - | - | - | - | - | - | - | - | - | |
| 30 | 19.4 | 16.9 | 15.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 21.9 | 21.2 | 20.5 | 19.9 | 17.1 | 14.2 | 10.7 | 8.5 | 7.1 | 6.1 | 5.3 | 4.7 | 4.3 | 3.9 | 3.4 | 80 |
| 2 | 21.7 | 20.6 | 19.7 | 17.7 | 14.1 | 11.8 | 8.8 | 7.1 | 5.9 | 5.1 | 4.4 | 3.9 | 3.5 | 3.2 | 2.8 | |
| 3 | 21.4 | 20.2 | 19.1 | 16.5 | 13.2 | 11.0 | 8.2 | 6.6 | 5.5 | 4.7 | 4.1 | 3.7 | 3.3 | 3.0 | 2.6 | |
| 4 | 21.2 | 19.9 | 18.7 | 15.9 | 12.7 | 10.6 | 7.9 | 6.3 | 5.3 | 4.5 | 4.0 | 3.5 | 3.2 | 2.9 | 2.5 | |
| 5 | 21.1 | 19.6 | 18.3 | 15.5 | 12.4 | 10.3 | 7.7 | 6.2 | 5.2 | 4.4 | 3.9 | 3.4 | 3.1 | - | - | |
| 10 | 20.4 | 18.5 | 16.9 | 14.8 | 11.8 | 9.8 | 7.4 | 5.9 | - | - | - | - | - | - | - | |
| 15 | 20.0 | 17.7 | 16.0 | 14.5 | 11.6 | 9.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 19.0 | 16.3 | 14.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 21.9 | 21.1 | 20.3 | 18.5 | 14.8 | 12.3 | 9.3 | 7.4 | 6.2 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | 100 |
| 2 | 21.5 | 20.4 | 19.4 | 14.9 | 11.9 | 9.9 | 7.4 | 5.9 | 5.0 | 4.2 | 3.7 | 3.3 | 3.0 | 2.7 | 2.4 | |
| 3 | 21.3 | 20.0 | 18.2 | 13.7 | 10.9 | 9.1 | 6.8 | 5.5 | 4.6 | 3.9 | 3.4 | 3.0 | 2.7 | 2.5 | 2.2 | |
| 4 | 21.1 | 19.6 | 17.4 | 13.1 | 10.4 | 8.7 | 6.5 | 5.2 | 4.4 | 3.7 | 3.3 | 2.9 | 2.6 | 2.4 | 2.1 | |
| 5 | 20.9 | 19.3 | 16.9 | 12.7 | 10.2 | 8.5 | 6.3 | 5.1 | 4.2 | 3.6 | 3.2 | 2.8 | 2.5 | - | - | |
| 10 | 20.2 | 18.1 | 15.9 | 12.0 | 9.6 | 8.0 | 6.0 | 4.8 | - | - | - | - | - | - | - | |
| 15 | 19.7 | 17.3 | 15.4 | 11.7 | 9.4 | 7.8 | - | - | - | - | - | - | - | - | - | |
| 30 | 18.6 | 15.7 | 13.6 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 21.7 | 20.7 | 19.7 | 14.8 | 11.8 | 9.8 | 7.4 | 5.9 | 4.9 | 4.2 | 3.7 | 3.3 | 3.0 | 2.7 | 2.4 | 150 |
| 2 | 21.3 | 19.9 | 14.8 | 11.1 | 8.9 | 7.4 | 5.6 | 4.4 | 3.7 | 3.2 | 2.8 | 2.5 | 2.2 | 2.0 | 1.8 | |
| 3 | 21.0 | 19.4 | 13.2 | 9.9 | 7.9 | 6.6 | 5.0 | 4.0 | 3.3 | 2.8 | 2.5 | 2.2 | 2.0 | 1.8 | 1.6 | |
| 4 | 20.7 | 18.6 | 12.4 | 9.3 | 7.4 | 6.2 | 4.7 | 3.7 | 3.1 | 2.7 | 2.3 | 2.1 | 1.9 | 1.7 | 1.5 | |
| 5 | 20.5 | 17.9 | 11.9 | 8.9 | 7.2 | 6.0 | 4.5 | 3.6 | 3.0 | 2.6 | 2.2 | 2.0 | 1.8 | - | - | |
| 10 | 19.7 | 16.4 | 11.0 | 8.2 | 6.6 | 5.5 | 4.1 | 3.3 | - | - | - | - | - | - | - | |
| 15 | 19.1 | 15.9 | 10.6 | 8.0 | 6.4 | 5.3 | - | - | - | - | - | - | - | - | - | |
| 30 | 17.9 | 14.7 | 10.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 21.3 | 19.9 | 14.7 | 11.0 | 8.8 | 7.3 | 5.5 | 4.4 | 3.7 | 3.1 | 2.8 | 2.4 | 2.2 | 2.0 | 1.8 | 300 |
| 2 | 20.7 | 14.8 | 9.8 | 7.4 | 5.9 | 4.9 | 3.7 | 3.0 | 2.5 | 2.1 | 1.8 | 1.6 | 1.5 | 1.3 | 1.2 | |
| 3 | 20.3 | 12.3 | 8.2 | 6.2 | 4.9 | 4.1 | 3.1 | 2.5 | 2.1 | 1.8 | 1.5 | 1.4 | 1.2 | 1.1 | 1.0 | |
| 4 | 19.9 | 11.1 | 7.4 | 5.6 | 4.4 | 3.7 | 2.8 | 2.2 | 1.9 | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 | 0.9 | |
| 5 | 19.7 | 10.4 | 6.9 | 5.2 | 4.2 | 3.5 | 2.6 | 2.1 | 1.7 | 1.5 | 1.3 | 1.2 | 1.0 | - | - | |
| 10 | 17.9 | 8.9 | 6.0 | 4.5 | 3.6 | 3.0 | 2.2 | 1.8 | - | - | - | - | - | - | - | |
| 15 | 16.9 | 8.5 | 5.6 | 4.2 | 3.4 | 2.8 | - | - | - | - | - | - | - | - | - | |
| 30 | 15.9 | 8.0 | 5.3 | - | - | - | - | - | - | - | - | - | - | - | - | |

Serie de capacidad de carga

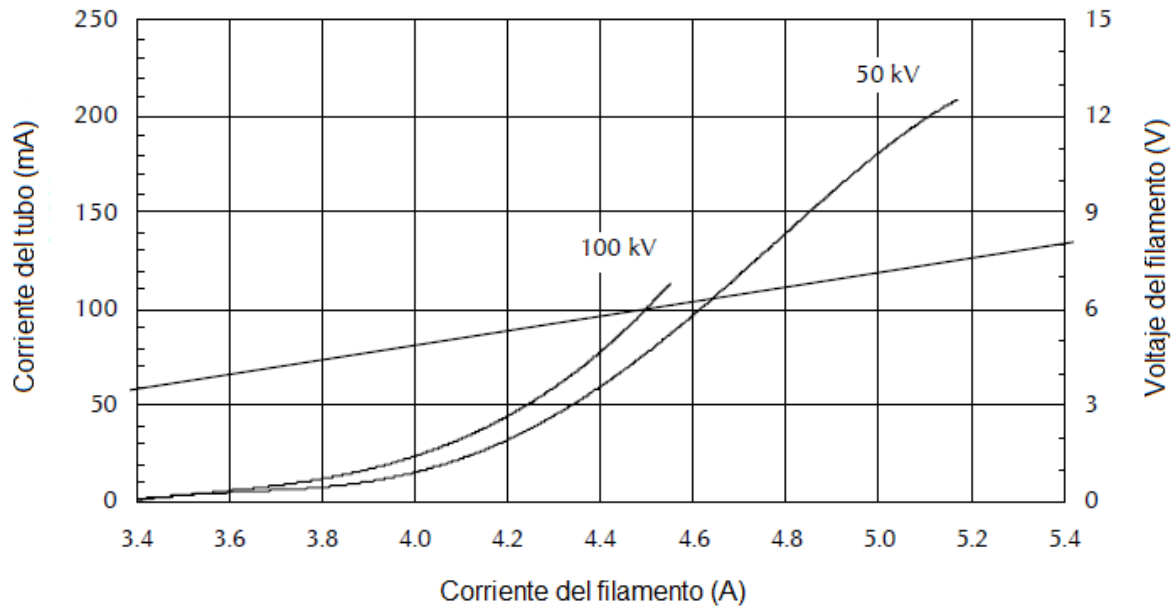
■ 0.6 – 3 ~ - 3000 min⁻¹

| Potencia de entrada del ánodo como una función de n (N° de exposiciones en serie), z (tasa de exposición por segundo), tiempo de exposición (seg) | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| z | 0.010 | 0.020 | 0.030 | 0.040 | 0.050 | 0.060 | 0.080 | 0.100 | 0.120 | 0.140 | 0.160 | 0.180 | 0.200 | 0.220 | 0.250 | n |
| 1 | 9.5 | 9.3 | 9.3 | 9.2 | 9.1 | 9.0 | 8.9 | 8.8 | 8.7 | 8.6 | 8.6 | 8.5 | 8.4 | 8.3 | 8.1 | 5 |
| 2 | 9.5 | 9.5 | 9.3 | 9.2 | 9.1 | 9.0 | 8.9 | 8.7 | 8.5 | 8.4 | 8.2 | 8.1 | 7.9 | 7.8 | 7.6 | |
| 3 | 9.4 | 9.4 | 9.3 | 9.2 | 9.1 | 8.9 | 8.7 | 8.5 | 8.3 | 8.1 | 8.0 | 7.8 | 7.6 | 7.5 | 7.2 | |
| 4 | 9.4 | 9.4 | 9.2 | 9.1 | 9.0 | 8.8 | 8.6 | 8.4 | 8.2 | 7.9 | 7.7 | 7.6 | 7.4 | 7.2 | 7.0 | |
| 5 | 9.3 | 9.3 | 9.2 | 9.0 | 8.9 | 8.8 | 8.5 | 8.2 | 8.0 | 7.8 | 7.6 | 7.4 | 7.2 | - | - | |
| 10 | 9.3 | 9.2 | 9.0 | 8.8 | 8.6 | 8.4 | 8.1 | 7.8 | - | - | - | - | - | - | - | |
| 15 | 9.3 | 9.1 | 8.9 | 8.7 | 8.4 | 8.2 | - | - | - | - | - | - | - | - | - | |
| 30 | 9.3 | 9.0 | 8.6 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 9.5 | 9.5 | 9.3 | 9.2 | 9.1 | 9.0 | 8.9 | 8.7 | 8.5 | 8.4 | 8.2 | 8.1 | 7.9 | 7.8 | 7.6 | 10 |
| 2 | 9.4 | 9.4 | 9.2 | 9.1 | 9.0 | 8.8 | 8.6 | 8.4 | 8.1 | 7.9 | 7.7 | 7.5 | 7.4 | 7.2 | 7.0 | |
| 3 | 9.3 | 9.3 | 9.1 | 9.0 | 8.8 | 8.7 | 8.4 | 8.1 | 7.9 | 7.6 | 7.4 | 7.2 | 7.0 | 6.8 | 6.5 | |
| 4 | 9.3 | 9.3 | 9.1 | 8.9 | 8.7 | 8.5 | 8.2 | 7.9 | 7.6 | 7.4 | 7.1 | 6.9 | 6.7 | 6.5 | 6.2 | |
| 5 | 9.3 | 9.2 | 9.0 | 8.8 | 8.6 | 8.4 | 8.1 | 7.8 | 7.5 | 7.2 | 6.9 | 6.7 | 6.5 | - | - | |
| 10 | 9.3 | 9.0 | 8.8 | 8.5 | 8.2 | 8.0 | 7.6 | 7.2 | - | - | - | - | - | - | - | |
| 15 | 9.3 | 8.9 | 8.6 | 8.3 | 8.0 | 7.7 | - | - | - | - | - | - | - | - | - | |
| 30 | 9.1 | 8.7 | 8.2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 9.4 | 9.4 | 9.2 | 9.1 | 9.0 | 8.8 | 8.6 | 8.4 | 8.1 | 7.9 | 7.7 | 7.5 | 7.4 | 7.2 | 7.0 | 20 |
| 2 | 9.3 | 9.3 | 9.1 | 8.9 | 8.7 | 8.5 | 8.2 | 7.9 | 7.6 | 7.4 | 7.1 | 6.9 | 6.7 | 6.5 | 6.2 | |
| 3 | 9.3 | 9.2 | 8.9 | 8.7 | 8.5 | 8.3 | 7.9 | 7.6 | 7.3 | 7.0 | 6.7 | 6.5 | 6.3 | 6.1 | 5.8 | |
| 4 | 9.3 | 9.1 | 8.8 | 8.6 | 8.4 | 8.1 | 7.7 | 7.4 | 7.0 | 6.7 | 6.4 | 6.2 | 6.0 | 5.7 | 5.4 | |
| 5 | 9.3 | 9.0 | 8.8 | 8.5 | 8.2 | 8.0 | 7.6 | 7.2 | 6.8 | 6.5 | 6.2 | 5.9 | 5.7 | - | - | |
| 10 | 9.2 | 8.8 | 8.4 | 8.1 | 7.8 | 7.5 | 6.9 | 6.5 | - | - | - | - | - | - | - | |
| 15 | 9.1 | 8.6 | 8.2 | 7.8 | 7.4 | 7.1 | - | - | - | - | - | - | - | - | - | |
| 30 | 8.9 | 8.3 | 7.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 9.3 | 9.3 | 9.1 | 8.9 | 8.7 | 8.5 | 8.2 | 7.9 | 7.6 | 7.4 | 7.1 | 6.9 | 6.7 | 6.4 | 5.7 | 40 |
| 2 | 9.3 | 9.1 | 8.8 | 8.6 | 8.4 | 8.1 | 7.7 | 7.4 | 7.0 | 6.7 | 6.4 | 6.2 | 5.9 | 5.7 | 5.1 | |
| 3 | 9.3 | 9.0 | 8.7 | 8.4 | 8.1 | 7.9 | 7.4 | 7.0 | 6.6 | 6.3 | 6.0 | 5.7 | 5.5 | 5.2 | 4.9 | |
| 4 | 9.3 | 8.9 | 8.5 | 8.2 | 7.9 | 7.6 | 7.1 | 6.7 | 6.3 | 6.0 | 5.7 | 5.4 | 5.1 | 4.9 | 4.6 | |
| 5 | 9.2 | 8.8 | 8.4 | 8.1 | 7.8 | 7.5 | 6.9 | 6.5 | 6.1 | 5.7 | 5.4 | 5.1 | 4.9 | - | - | |
| 10 | 9.0 | 8.5 | 8.0 | 7.6 | 7.2 | 6.8 | 6.2 | 5.7 | - | - | - | - | - | - | - | |
| 15 | 8.9 | 8.3 | 7.7 | 7.2 | 6.8 | 6.4 | 5.7 | 5.2 | - | - | - | - | - | - | - | |
| 30 | 8.6 | 7.8 | 7.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 9.3 | 9.2 | 8.9 | 8.7 | 8.5 | 8.3 | 7.9 | 7.6 | 7.3 | 7.0 | 6.5 | 5.8 | 5.2 | 4.7 | 4.2 | 60 |
| 2 | 9.3 | 9.0 | 8.7 | 8.4 | 8.1 | 7.9 | 7.4 | 7.0 | 6.6 | 6.3 | 5.6 | 5.0 | 4.5 | 4.1 | 3.6 | |
| 3 | 9.2 | 8.8 | 8.5 | 8.1 | 7.8 | 7.5 | 7.0 | 6.6 | 6.2 | 5.8 | 5.3 | 4.7 | 4.2 | 3.8 | 3.4 | |
| 4 | 9.2 | 8.7 | 8.3 | 7.9 | 7.6 | 7.3 | 6.7 | 6.3 | 5.9 | 5.5 | 5.1 | 4.6 | 4.1 | 3.7 | 3.3 | |
| 5 | 9.1 | 8.6 | 8.2 | 7.8 | 7.4 | 7.1 | 6.5 | 6.0 | 5.6 | 5.2 | 4.9 | 4.5 | 4.0 | - | - | |
| 10 | 8.9 | 8.3 | 7.7 | 7.2 | 6.8 | 6.4 | 5.7 | 5.2 | - | - | - | - | - | - | - | |
| 15 | 8.8 | 8.0 | 7.4 | 6.8 | 6.3 | 5.9 | - | - | - | - | - | - | - | - | - | |
| 30 | 8.4 | 7.5 | 6.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 9.3 | 9.1 | 8.8 | 8.6 | 8.4 | 8.1 | 7.7 | 7.4 | 7.0 | 6.1 | 5.3 | 4.7 | 4.3 | 3.9 | 3.4 | 80 |
| 2 | 9.3 | 8.9 | 8.5 | 8.2 | 7.9 | 7.6 | 7.1 | 6.7 | 5.9 | 5.1 | 4.4 | 3.9 | 3.5 | 3.2 | 2.8 | |
| 3 | 9.2 | 8.7 | 8.3 | 7.9 | 7.6 | 7.3 | 6.7 | 6.3 | 5.5 | 4.7 | 4.1 | 3.7 | 3.3 | 3.0 | 2.6 | |
| 4 | 9.1 | 8.6 | 8.1 | 7.7 | 7.4 | 7.0 | 6.4 | 5.9 | 5.3 | 4.5 | 4.0 | 3.5 | 3.2 | 2.9 | 2.5 | |
| 5 | 9.0 | 8.5 | 8.0 | 7.6 | 7.2 | 6.8 | 6.2 | 5.7 | 5.2 | 4.4 | 3.9 | 3.4 | 3.1 | - | - | |
| 10 | 8.8 | 8.1 | 7.5 | 6.9 | 6.5 | 6.1 | 5.4 | 4.9 | - | - | - | - | - | - | - | |
| 15 | 8.6 | 7.8 | 7.1 | 6.5 | 6.0 | 5.6 | - | - | - | - | - | - | - | - | - | |
| 30 | 8.3 | 7.2 | 6.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 9.3 | 9.0 | 8.8 | 8.5 | 8.2 | 8.0 | 7.6 | 7.2 | 6.2 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | 100 |
| 2 | 9.2 | 8.8 | 8.4 | 8.1 | 7.8 | 7.5 | 6.9 | 5.9 | 5.0 | 4.2 | 3.7 | 3.3 | 3.0 | 2.7 | 2.4 | |
| 3 | 9.1 | 8.6 | 8.2 | 7.8 | 7.4 | 7.1 | 6.5 | 5.5 | 4.6 | 3.9 | 3.4 | 3.0 | 2.7 | 2.5 | 2.2 | |
| 4 | 9.0 | 8.5 | 8.0 | 7.6 | 7.2 | 6.8 | 6.2 | 5.2 | 4.4 | 3.7 | 3.3 | 2.9 | 2.6 | 2.4 | 2.1 | |
| 5 | 9.0 | 8.4 | 7.8 | 7.4 | 7.0 | 6.6 | 5.9 | 5.1 | 4.2 | 3.6 | 3.2 | 2.8 | 2.5 | - | - | |
| 10 | 8.7 | 7.9 | 7.3 | 6.7 | 6.2 | 5.8 | 5.1 | 4.6 | - | - | - | - | - | - | - | |
| 15 | 8.5 | 7.6 | 6.9 | 6.3 | 5.8 | 5.3 | - | - | - | - | - | - | - | - | - | |
| 30 | 8.1 | 7.0 | 6.1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 9.3 | 8.9 | 8.6 | 8.3 | 8.0 | 7.7 | 7.2 | 5.9 | 4.9 | 4.2 | 3.7 | 3.3 | 3.0 | 2.7 | 2.4 | 150 |
| 2 | 9.1 | 8.6 | 8.2 | 7.8 | 7.4 | 7.1 | 5.6 | 4.4 | 3.7 | 3.2 | 2.8 | 2.5 | 2.2 | 2.0 | 1.8 | |
| 3 | 9.0 | 8.4 | 7.9 | 7.5 | 7.1 | 6.6 | 5.0 | 4.0 | 3.3 | 2.8 | 2.5 | 2.2 | 2.0 | 1.8 | 1.6 | |
| 4 | 8.9 | 8.3 | 7.7 | 7.2 | 6.8 | 6.2 | 4.7 | 3.7 | 3.1 | 2.7 | 2.3 | 2.1 | 1.9 | 1.7 | 1.5 | |
| 5 | 8.8 | 8.1 | 7.5 | 7.0 | 6.5 | 6.0 | 4.5 | 3.6 | 3.0 | 2.6 | 2.2 | 2.0 | 1.8 | - | - | |
| 10 | 8.5 | 7.6 | 6.9 | 6.3 | 5.8 | 5.3 | 4.1 | 3.3 | - | - | - | - | - | - | - | |
| 15 | 8.3 | 7.3 | 6.5 | 5.8 | 5.3 | 4.8 | - | - | - | - | - | - | - | - | - | |
| 30 | 7.8 | 6.6 | 5.7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1 | 9.1 | 8.6 | 8.2 | 7.8 | 7.4 | 7.1 | 5.5 | 4.4 | 3.7 | 3.1 | 2.8 | 2.4 | 2.2 | 2.0 | 1.8 | 300 |
| 2 | 8.9 | 8.3 | 7.7 | 7.2 | 5.9 | 4.9 | 3.7 | 3.0 | 2.5 | 2.1 | 1.8 | 1.6 | 1.5 | 1.3 | 1.2 | |
| 3 | 8.8 | 8.0 | 7.4 | 6.2 | 4.9 | 4.1 | 3.1 | 2.5 | 2.1 | 1.8 | 1.5 | 1.4 | 1.2 | 1.1 | 1.0 | |
| 4 | 8.6 | 7.8 | 7.1 | 5.6 | 4.4 | 3.7 | 2.8 | 2.2 | 1.9 | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 | 0.9 | |
| 5 | 8.5 | 7.6 | 6.9 | 5.2 | 4.2 | 3.5 | 2.6 | 2.1 | 1.7 | 1.5 | 1.3 | 1.2 | 1.0 | - | - | |
| 10 | 8.1 | 7.0 | 6.0 | 4.5 | 3.6 | 3.0 | 2.2 | 1.8 | - | - | - | - | - | - | - | |
| 15 | 7.8 | 6.6 | 5.6 | 4.2 | 3.4 | 2.8 | - | - | - | - | - | - | - | - | - | |
| 30 | 7.3 | 5.8 | 4.8 | - | - | - | - | - | - | - | - | - | - | - | - | |

Serie de capacidad de carga

■ 1.2 – 3 ~ - 3000 min⁻¹

| Potencia de entrada del ánodo como una función de n (N° de exposiciones en serie), z (tasa de exposición por segundo), tiempo de exposición (seg) | | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|
| 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 | 26.8 | 26.8 | 26.1 | 25.6 | 25.2 | 24.9 | 24.4 | 24.0 | 23.7 | 23.4 | 23.1 | 22.8 | 22.4 | 22.0 | 21.4 | 5 | |
| 2 | 26.5 | 26.5 | 26.1 | 25.6 | 25.2 | 24.9 | 24.3 | 23.7 | 23.0 | 22.5 | 21.9 | 21.4 | 20.9 | 20.4 | 19.7 | | |
| 3 | 26.4 | 26.4 | 25.9 | 25.4 | 25.0 | 24.6 | 23.7 | 23.0 | 22.3 | 21.6 | 21.0 | 20.4 | 19.8 | 19.3 | 18.5 | | |
| 4 | 26.2 | 26.2 | 25.7 | 25.2 | 24.7 | 24.2 | 23.3 | 22.4 | 21.7 | 20.9 | 20.2 | 19.6 | 19.0 | 18.4 | 17.7 | | |
| 5 | 26.1 | 26.1 | 25.5 | 24.9 | 24.4 | 23.9 | 22.9 | 22.0 | 21.1 | 20.4 | 19.7 | 19.0 | 18.4 | - | - | | |
| 10 | 26.1 | 25.6 | 24.8 | 24.1 | 23.4 | 22.7 | 21.5 | 20.4 | - | - | - | - | - | - | - | | |
| 15 | 26.1 | 25.3 | 24.3 | 23.5 | 22.7 | 21.9 | - | - | - | - | - | - | - | - | - | | |
| 30 | 25.9 | 24.6 | 23.4 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1 | 26.5 | 26.5 | 26.1 | 25.6 | 25.2 | 24.9 | 24.3 | 23.7 | 23.0 | 22.4 | 21.9 | 21.4 | 20.8 | 20.4 | 19.1 | | 10 |
| 2 | 26.2 | 26.2 | 25.7 | 25.1 | 24.6 | 24.2 | 23.3 | 22.4 | 21.6 | 20.9 | 20.2 | 19.6 | 19.0 | 18.4 | 17.6 | | |
| 3 | 26.1 | 26.0 | 25.3 | 24.7 | 24.1 | 23.5 | 22.5 | 21.5 | 20.7 | 19.8 | 19.1 | 18.4 | 17.8 | 17.2 | 16.3 | | |
| 4 | 26.1 | 25.8 | 25.0 | 24.3 | 23.7 | 23.0 | 21.9 | 20.9 | 19.9 | 19.0 | 18.3 | 17.5 | 16.9 | 16.2 | 15.4 | | |
| 5 | 26.1 | 25.6 | 24.8 | 24.0 | 23.3 | 22.6 | 21.4 | 20.3 | 19.3 | 18.4 | 17.6 | 16.8 | 16.1 | - | - | | |
| 10 | 26.1 | 24.9 | 23.9 | 22.9 | 22.0 | 21.1 | 19.7 | 18.4 | - | - | - | - | - | - | - | | |
| 15 | 25.8 | 24.4 | 23.2 | 22.1 | 21.1 | 20.1 | - | - | - | - | - | - | - | - | - | | |
| 30 | 25.3 | 23.5 | 21.9 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1 | 26.2 | 26.2 | 25.7 | 25.1 | 24.6 | 24.2 | 23.2 | 22.4 | 21.1 | 18.1 | 15.9 | 14.1 | 12.7 | 11.5 | 10.2 | 20 | |
| 2 | 26.1 | 25.7 | 25.0 | 24.3 | 23.7 | 23.0 | 21.9 | 20.8 | 19.9 | 17.1 | 15.0 | 13.3 | 12.0 | 10.9 | 9.6 | | |
| 3 | 26.1 | 25.4 | 24.5 | 23.7 | 23.0 | 22.2 | 20.9 | 19.8 | 18.7 | 16.7 | 14.6 | 13.0 | 11.7 | 10.7 | 9.4 | | |
| 4 | 26.1 | 25.1 | 24.2 | 23.3 | 22.4 | 21.6 | 20.2 | 19.0 | 17.9 | 16.6 | 14.5 | 12.9 | 11.6 | 10.5 | 9.3 | | |
| 5 | 26.1 | 24.9 | 23.8 | 22.8 | 21.9 | 21.1 | 19.6 | 18.3 | 17.2 | 16.2 | 14.4 | 12.8 | 11.5 | - | - | | |
| 10 | 25.6 | 24.0 | 22.6 | 21.4 | 20.3 | 19.3 | 17.6 | 16.1 | - | - | - | - | - | - | - | | |
| 15 | 25.2 | 23.4 | 21.8 | 20.4 | 19.2 | 18.1 | - | - | - | - | - | - | - | - | - | | |
| 30 | 24.4 | 22.1 | 20.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1 | 26.1 | 25.7 | 25.0 | 24.3 | 23.7 | 23.0 | 17.7 | 14.1 | 11.8 | 10.1 | 8.8 | 7.9 | 7.1 | 6.4 | 5.7 | | 40 |
| 2 | 26.1 | 25.1 | 24.2 | 23.2 | 22.4 | 21.1 | 15.9 | 12.7 | 10.6 | 9.1 | 7.9 | 7.0 | 6.3 | 5.8 | 5.1 | | |
| 3 | 26.0 | 24.7 | 23.5 | 22.5 | 21.5 | 20.3 | 15.3 | 12.2 | 10.2 | 8.7 | 7.6 | 6.8 | 6.1 | 5.5 | 4.9 | | |
| 4 | 25.7 | 24.3 | 23.0 | 21.9 | 20.8 | 19.9 | 15.0 | 12.0 | 10.0 | 8.5 | 7.5 | 6.6 | 6.0 | 5.4 | 4.8 | | |
| 5 | 25.6 | 24.0 | 22.6 | 21.4 | 20.3 | 19.3 | 14.8 | 11.8 | 9.8 | 8.4 | 7.4 | 6.6 | 5.9 | - | - | | |
| 10 | 24.9 | 22.8 | 21.1 | 19.6 | 18.3 | 17.2 | 14.4 | 11.5 | - | - | - | - | - | - | - | | |
| 15 | 24.4 | 22.0 | 20.1 | 18.4 | 17.1 | 15.9 | - | - | - | - | - | - | - | - | - | | |
| 30 | 23.4 | 20.4 | 18.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1 | 26.1 | 25.4 | 24.5 | 23.7 | 20.8 | 17.3 | 13.0 | 10.4 | 8.7 | 7.4 | 6.5 | 5.8 | 5.2 | 4.7 | 4.2 | 60 | |
| 2 | 26.0 | 24.7 | 23.5 | 22.4 | 17.9 | 14.9 | 11.2 | 8.9 | 7.5 | 6.4 | 5.6 | 5.0 | 4.5 | 4.1 | 3.6 | | |
| 3 | 25.7 | 24.2 | 22.8 | 21.1 | 16.9 | 14.1 | 10.6 | 8.5 | 7.0 | 6.0 | 5.3 | 4.7 | 4.2 | 3.8 | 3.4 | | |
| 4 | 25.4 | 23.7 | 22.2 | 20.5 | 16.4 | 13.7 | 10.3 | 8.2 | 6.8 | 5.9 | 5.1 | 4.6 | 4.1 | 3.7 | 3.3 | | |
| 5 | 25.2 | 23.4 | 21.8 | 20.2 | 16.1 | 13.5 | 10.1 | 8.1 | 6.7 | 5.8 | 5.0 | 4.5 | 4.0 | - | - | | |
| 10 | 24.4 | 22.0 | 20.1 | 18.4 | 15.6 | 13.0 | 9.7 | 7.8 | - | - | - | - | - | - | - | | |
| 15 | 23.8 | 21.1 | 18.9 | 17.2 | 15.4 | 12.8 | - | - | - | - | - | - | - | - | - | | |
| 30 | 22.6 | 19.3 | 16.8 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1 | 26.1 | 25.1 | 24.2 | 21.3 | 17.1 | 14.2 | 10.7 | 8.5 | 7.1 | 6.1 | 5.3 | 4.7 | 4.3 | 3.9 | 3.4 | | 80 |
| 2 | 25.7 | 24.3 | 23.0 | 17.7 | 14.1 | 11.8 | 8.8 | 7.1 | 5.9 | 5.1 | 4.4 | 3.9 | 3.5 | 3.2 | 2.8 | | |
| 3 | 25.4 | 23.7 | 22.0 | 16.5 | 13.2 | 11.0 | 8.2 | 6.6 | 5.5 | 4.7 | 4.1 | 3.7 | 3.3 | 3.0 | 2.6 | | |
| 4 | 25.1 | 23.2 | 21.1 | 15.9 | 12.7 | 10.6 | 7.9 | 6.3 | 5.3 | 4.5 | 4.0 | 3.5 | 3.2 | 2.9 | 2.5 | | |
| 5 | 24.9 | 22.8 | 20.7 | 15.5 | 12.4 | 10.3 | 7.7 | 6.2 | 5.2 | 4.4 | 3.9 | 3.4 | 3.1 | - | - | | |
| 10 | 24.0 | 21.4 | 19.3 | 14.8 | 11.8 | 9.8 | 7.4 | 5.9 | - | - | - | - | - | - | - | | |
| 15 | 23.4 | 20.4 | 18.1 | 14.5 | 11.6 | 9.7 | - | - | - | - | - | - | - | - | - | | |
| 30 | 22.0 | 18.4 | 15.9 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1 | 26.1 | 24.9 | 23.8 | 18.5 | 14.8 | 12.3 | 9.3 | 7.4 | 6.2 | 5.3 | 4.6 | 4.1 | 3.7 | 3.4 | 3.0 | 100 | |
| 2 | 25.6 | 24.0 | 19.8 | 14.9 | 11.9 | 9.9 | 7.4 | 5.9 | 5.0 | 4.2 | 3.7 | 3.3 | 3.0 | 2.7 | 2.4 | | |
| 3 | 25.2 | 23.4 | 18.2 | 13.7 | 10.9 | 9.1 | 6.8 | 5.5 | 4.6 | 3.9 | 3.4 | 3.0 | 2.7 | 2.5 | 2.2 | | |
| 4 | 24.9 | 22.8 | 17.4 | 13.1 | 10.4 | 8.7 | 6.5 | 5.2 | 4.4 | 3.7 | 3.3 | 2.9 | 2.6 | 2.4 | 2.1 | | |
| 5 | 24.6 | 22.4 | 16.9 | 12.7 | 10.2 | 8.5 | 6.3 | 5.1 | 4.2 | 3.6 | 3.2 | 2.8 | 2.5 | - | - | | |
| 10 | 23.7 | 20.8 | 15.9 | 12.0 | 9.6 | 8.0 | 6.0 | 4.8 | - | - | - | - | - | - | - | | |
| 15 | 23.0 | 19.8 | 15.6 | 11.7 | 9.4 | 7.8 | - | - | - | - | - | - | - | - | - | | |
| 30 | 21.5 | 17.8 | 15.1 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1 | 25.8 | 24.4 | 19.7 | 14.8 | 11.8 | 9.8 | 7.4 | 5.9 | 4.9 | 4.2 | 3.7 | 3.3 | 3.0 | 2.7 | 2.4 | | 150 |
| 2 | 25.2 | 22.2 | 14.8 | 11.1 | 8.9 | 7.4 | 5.6 | 4.4 | 3.7 | 3.2 | 2.8 | 2.5 | 2.2 | 2.0 | 1.8 | | |
| 3 | 24.8 | 19.8 | 13.2 | 9.9 | 7.9 | 6.6 | 5.0 | 4.0 | 3.3 | 2.8 | 2.5 | 2.2 | 2.0 | 1.8 | 1.6 | | |
| 4 | 24.4 | 18.6 | 12.4 | 9.3 | 7.4 | 6.2 | 4.7 | 3.7 | 3.1 | 2.7 | 2.3 | 2.1 | 1.9 | 1.7 | 1.5 | | |
| 5 | 24.1 | 17.9 | 11.9 | 8.9 | 7.2 | 6.0 | 4.5 | 3.6 | 3.0 | 2.6 | 2.2 | 2.0 | 1.8 | - | - | | |
| 10 | 23.0 | 16.4 | 11.0 | 8.2 | 6.6 | 5.5 | 4.1 | 3.3 | - | - | - | - | - | - | - | | |
| 15 | 22.2 | 15.9 | 10.6 | 8.0 | 6.4 | 5.3 | - | - | - | - | - | - | - | - | - | | |
| 30 | 20.6 | 15.5 | 10.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1 | 25.2 | 22.0 | 14.7 | 11.0 | 8.8 | 7.3 | 5.5 | 4.4 | 3.7 | 3.1 | 2.8 | 2.4 | 2.2 | 2.0 | 1.8 | 300 | |
| 2 | 24.4 | 14.8 | 9.8 | 7.4 | 5.9 | 4.9 | 3.7 | 3.0 | 2.5 | 2.1 | 1.8 | 1.6 | 1.5 | 1.3 | 1.2 | | |
| 3 | 23.8 | 12.3 | 8.2 | 6.2 | 4.9 | 4.1 | 3.1 | 2.5 | 2.1 | 1.8 | 1.5 | 1.4 | 1.2 | 1.1 | 1.0 | | |
| 4 | 22.2 | 11.1 | 7.4 | 5.6 | 4.4 | 3.7 | 2.8 | 2.2 | 1.9 | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 | 0.9 | | |
| 5 | 20.8 | 10.4 | 6.9 | 5.2 | 4.2 | 3.5 | 2.6 | 2.1 | 1.7 | 1.5 | 1.3 | 1.2 | 1.0 | - | - | | |
| 10 | 17.9 | 8.9 | 6.0 | 4.5 | 3.6 | 3.0 | 2.2 | 1.8 | - | - | - | - | - | - | - | | |
| 15 | 16.9 | 8.5 | 5.6 | 4.2 | 3.4 | 2.8 | - | - | - | - | - | - | - | - | - | | |
| 30 | 15.9 | 8.0 | 5.3 | - | - | - | - | - | - | - | - | - | - | - | - | | |

Características de emisión del cátodo**■ 0.6 – 3 ~ - (± 0.2 A)****Características de emisión del cátodo****■ 1.2 – 3 ~ - (± 0.2 A)**