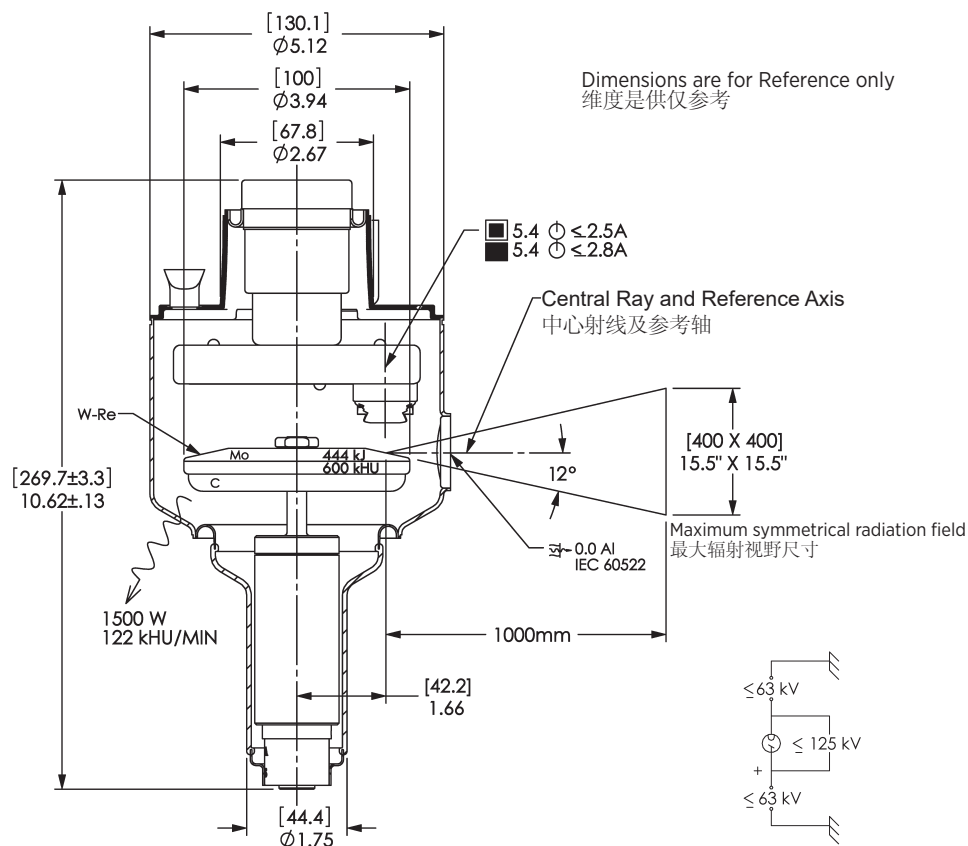


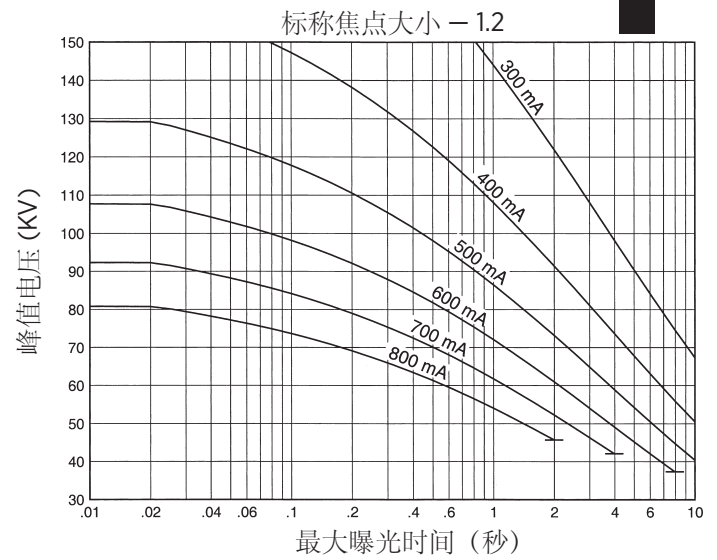
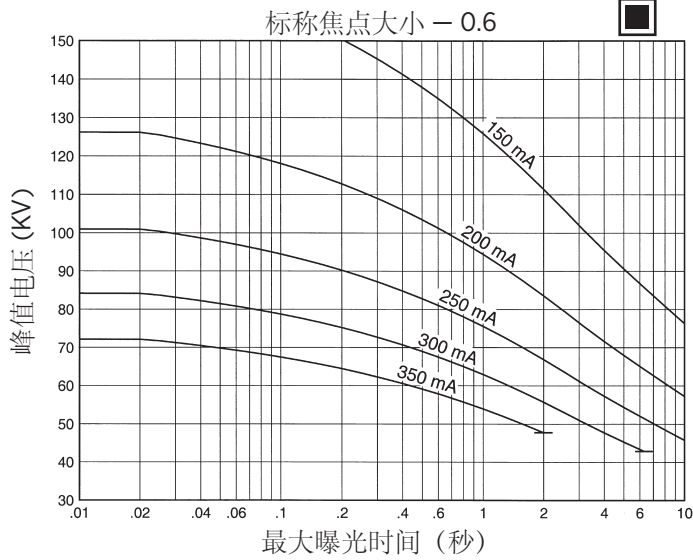


注释：文件最初用英语起草。

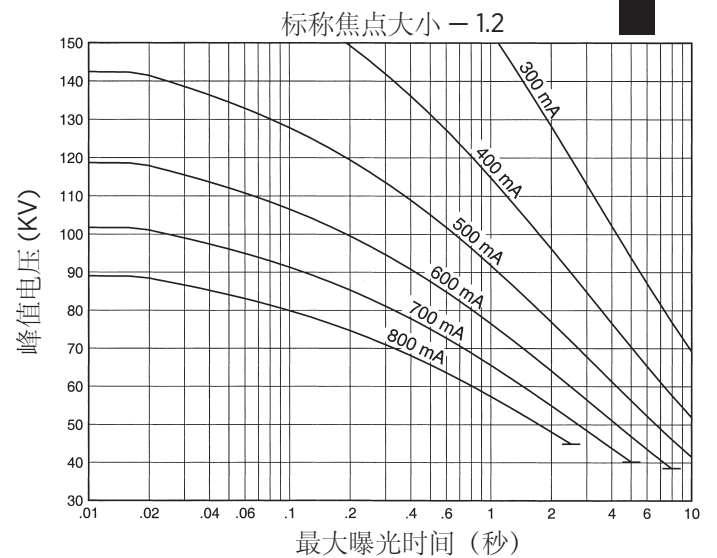
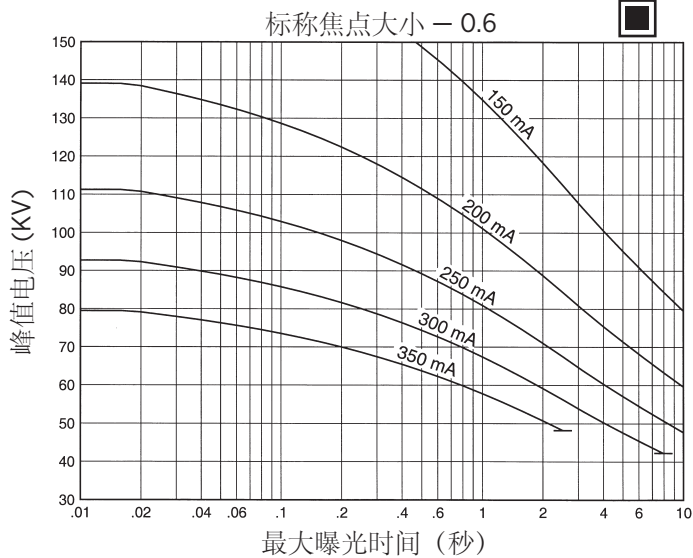
该管芯适用于 万睿视影像 B-130HM 管套。

3 Ø 恒定电压

50 Hz



60 Hz

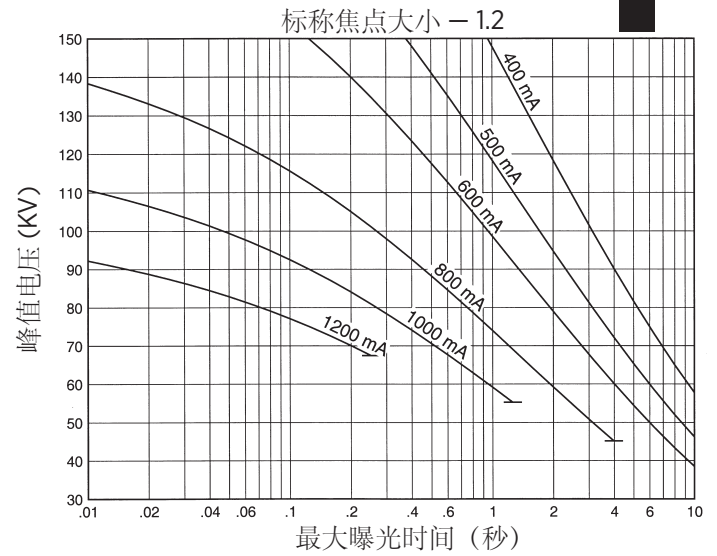
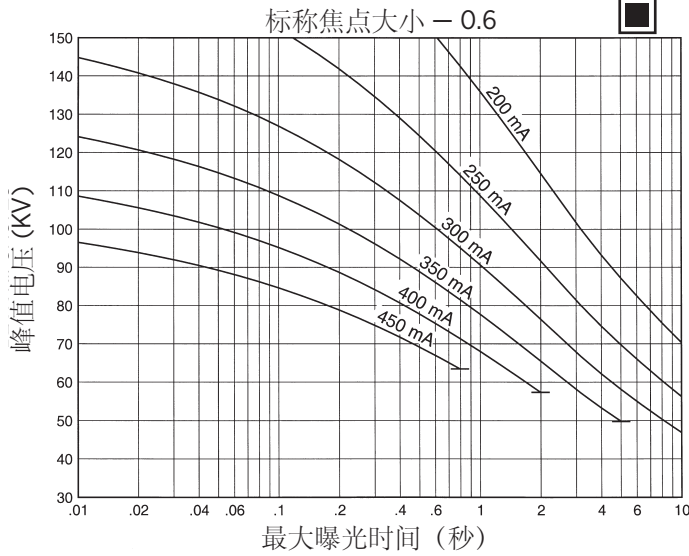


Nominal anode input power for the
anode heat content 40%. IEC 60613

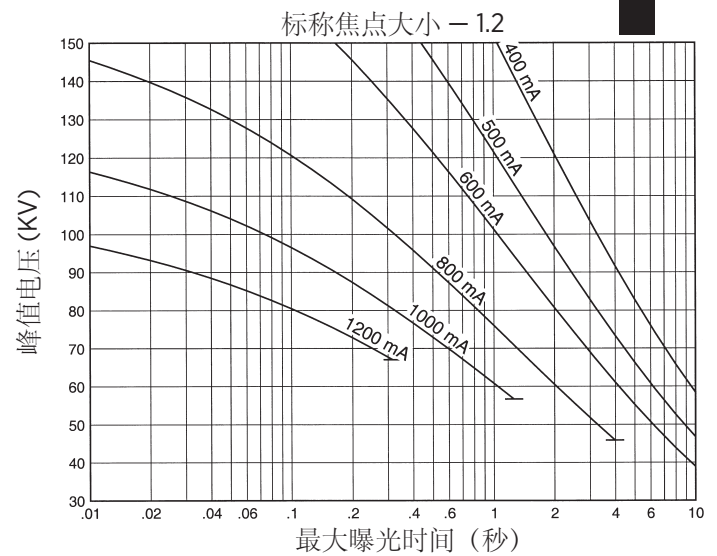
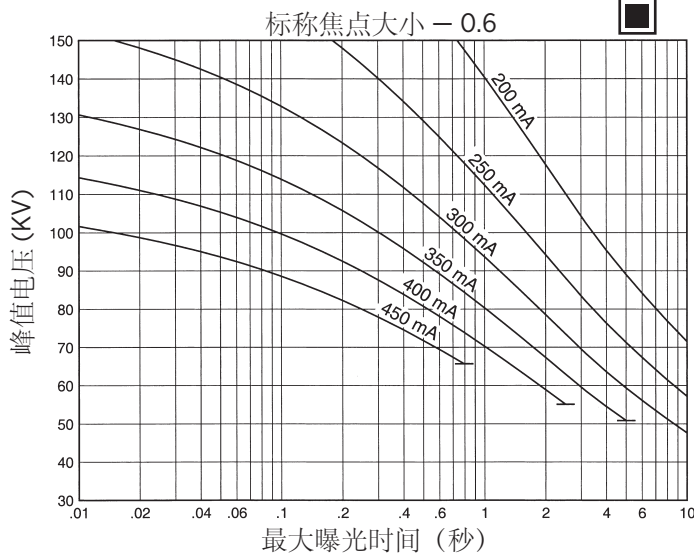
阳极热容量 40% 的标称阳极输入
功率。IEC 60613

3 Ø 恒定电压

150 Hz



180 Hz



Nominal anode input power for the anode heat content 40%. IEC 60613

阳极热容量 40% 的标称阳极输入功率。IEC 60613

CINERADIOGRAPHIC RATINGS HOW TO USE CINERADIOGRAPHIC CHARTS

General: With the Cineradiographic rating chart we can determine the maximum allowable kW of the Cine pulse, or with a given kW determine maximum time in seconds the Cine run can progress.

The Most common way of using the charts is to determine maximum time of any expected Cine run and maximum duty factor. With a known duty factor and Cine run time kW can easily be determined.

Definition of Terms

Time in seconds: Total time of one Cine run, usually 5 to 12 seconds.

Duty Factor in Percent (DF%): Actual time during one second the x-ray tube is producing x-rays. If we select a 4 msec pulse width and 60 exposures per second the x-ray tube will be producing x-rays for a total of 240 msec each second or 24% of the time. The higher the DF number, the more load placed on the x-ray tube.

Peak Pulse Power: Peak energy in watts of any one Cine Pulse. Can be any combination of kV and mA allowed by Radiographic and Filament Emission curves.

Example: 80 kV at 400 mA equals

$$80,000 \text{ V} \times 0.4 \text{ A} = 32,000 \text{ W or } 32 \text{ kW}$$

USING THE CINE RATING CHARTS:

G-692 150/180 Hz 3 Phase 1.2 Focal Spot

Example: Determine maximum kW allowed with the following known factors:
Maximum Pulse Width 4 msec
Exposures per Second 60
Maximum Cine Run Time 10 seconds

Calculate Duty Factor: (DF%)

$$\text{DF\%} = \frac{\text{Pulse Width (mSec)} \times \text{Frames per Second}}{10}$$

$$\text{DF\%} = \frac{4 \text{ msec} \times 60 \text{ exp/sec}}{10} = \frac{240}{10} = 24\%$$

Refer to Rating Chart G-692 150/180 Hz 3 Phase 1.2 Focal Spot:

At bottom of chart find 10 second line. Move vertically to intersection with 24% DF curve. Make a horizontal reference to left side of rating chart and note kW rating of 59 kW.

kW = kV x mA. The kW of the exposure can be any combination of mA and kV allowed by the Radiographic and Filament Emission Charts.

The Cine rating charts are usable to 100% anode heat storage. The start of Cine run should be below 70% anode heat storage. Exceeding 100% anode heat storage will cause anode track erosion with high risk of tube destruction.

电影摄影额定功率 如何使用电影摄影负载图

概述：利用电影摄影额定功率图，我们可以确定 Cine 脉冲的最大允许千瓦功率，或者用给定的千瓦值确定 Cine 运行的最长时间（秒）。

使用图表最常用的方法是确定任何预期的 Cine 运行的最长时间和最大占空系数。只要知道了占空系数和 Cine 运行时间，就可以轻松确定功率。

术语定义

时间（秒）：Cine 运行一次的总时间，通常为 5~12 秒钟。

占空系数 (DF%)：x 射线管生成 x 射线的一秒钟内的 实际时间。如果我们选择 4 毫秒脉冲宽度和每秒 60 次曝光，x 射线管将会产生每秒总计 240 毫秒的 x 射线或 24% 的时间。DF 数越大，x 射线管上可承载的 负载越高。

峰值脉冲功率：任一 Cine 脉冲的峰值能量 (W)，可以是放射成像和灯丝发射曲线允许的任一 kV 和 mA 组合。

例如：400 mA 时 80 kV 等于

$$80,000 \text{ V} \times 0.4 \text{ A} = 32,000 \text{ W or } 32 \text{ kW}$$

使用 CINE 额定功率图：

G-692 150/180 Hz 三相 1.2 焦点

例如：确定下列已知系数下的最大功率 (KW)：
最大脉冲宽度 4 毫秒
每秒曝光次数 60
最长 Cine 运行时间 10 秒

计算占空系数：(DF%)

$$\text{DF\%} = \frac{\text{脉冲宽度 (毫秒)} \times \text{每秒的帧数}}{10}$$

$$\text{DF\%} = \frac{4 \text{ 毫秒} \times 60 \text{ 次曝光/秒}}{10} = \frac{240}{10} = 24\%$$

参考额定功率图 G-692 150/180 Hz 三相 1.2 焦点：

在图的下面找到 10 秒一行。垂直移动到与 24% 的 DF 曲线交叉。水平移动到额定功率图的左侧，并记录 59 kW 的额定功率。

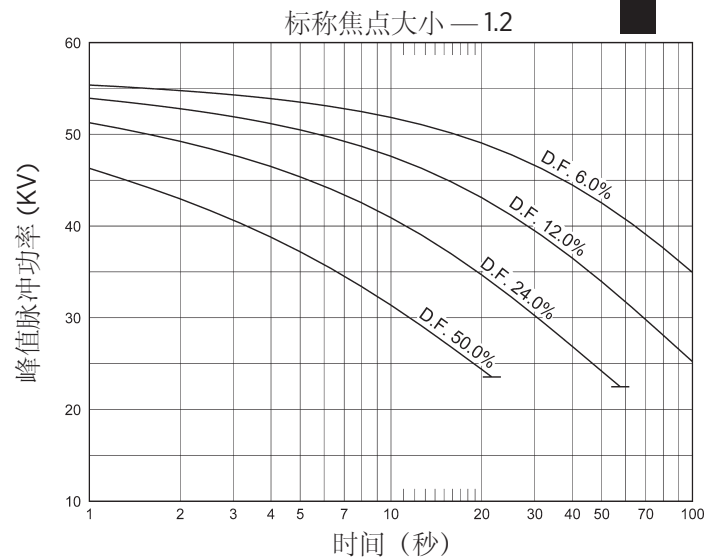
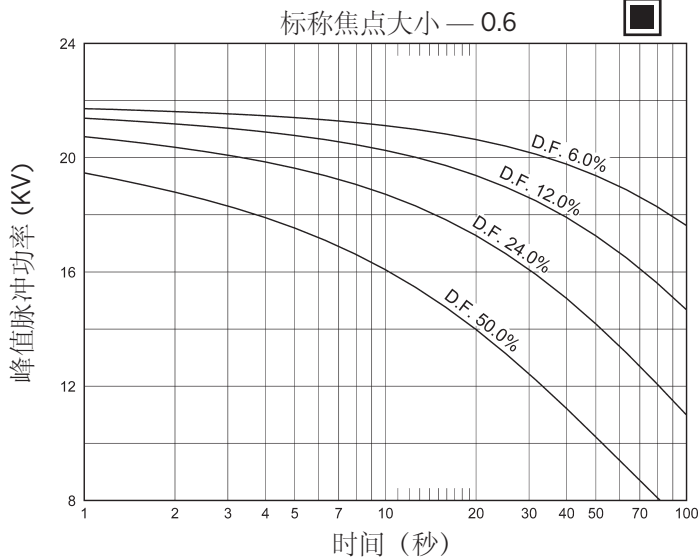
kW = kV x mA。

曝光的功率可以是放射成像和灯丝发射图允许的任何 mA 和 kV 组合。

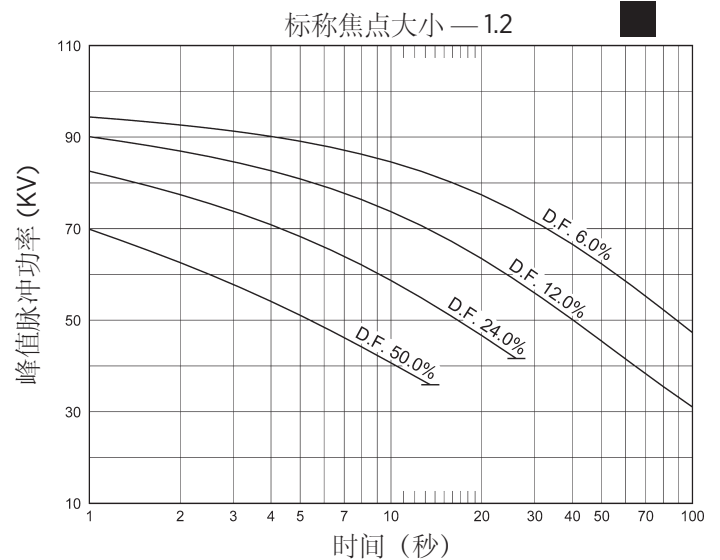
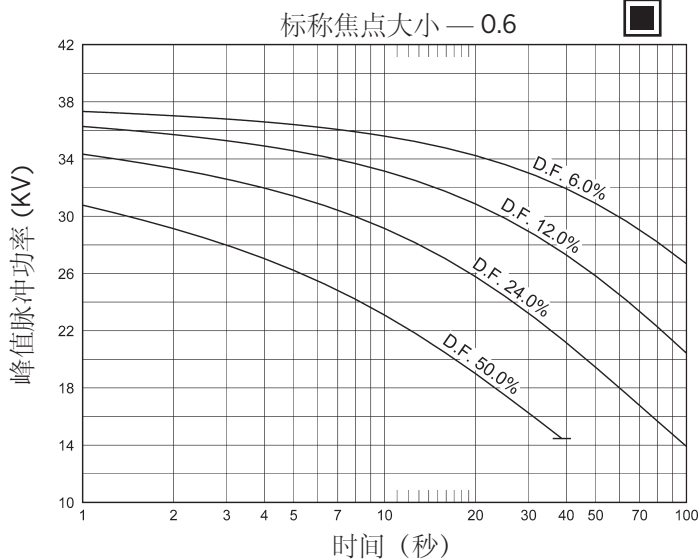
Cine 额定功率图可用于 100% 阳极热容量。Cine 开始 运行时热容量应该低于 70%。超过 100% 的阳极热容量 将导致阳极磁道腐蚀，且很容易损坏射线管。

3 Ø 恒定电压 

50/60 Hz

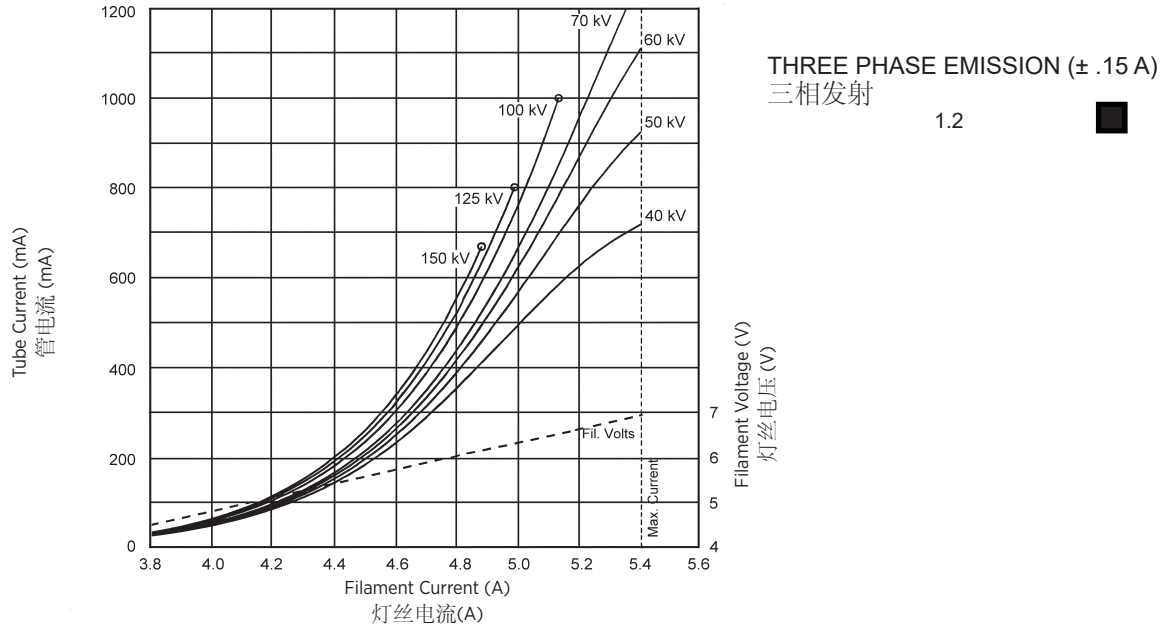
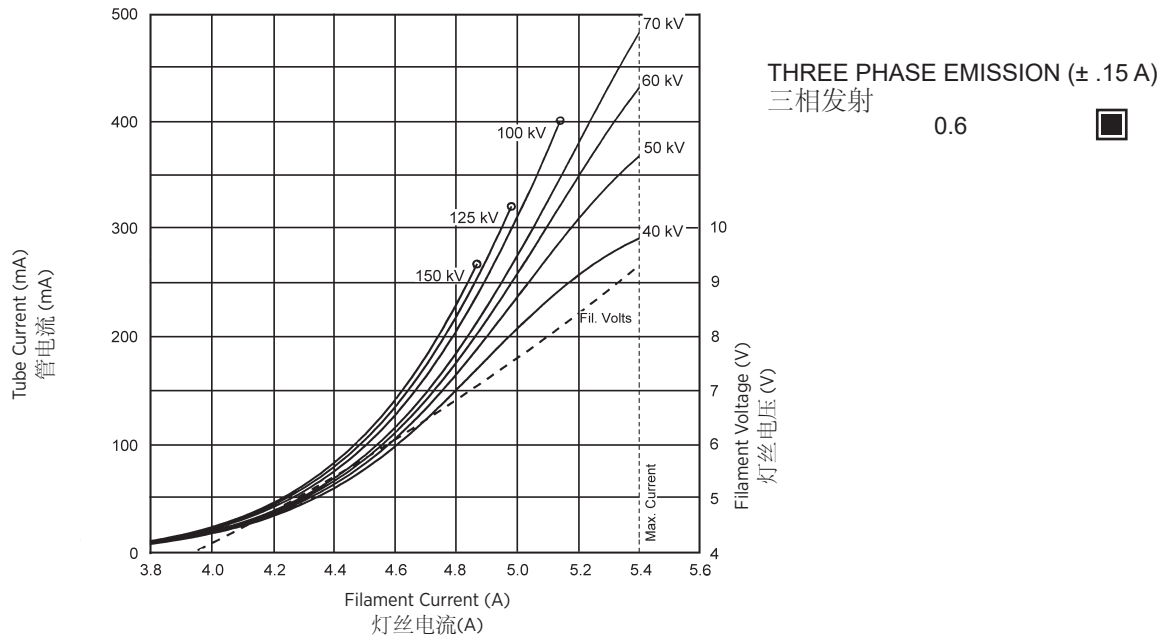


150/180 Hz


Nominal anode input power for the
anode heat content 70%. IEC 60613

阳极热容量 70% 的标称阳极输入
功率。IEC 60613

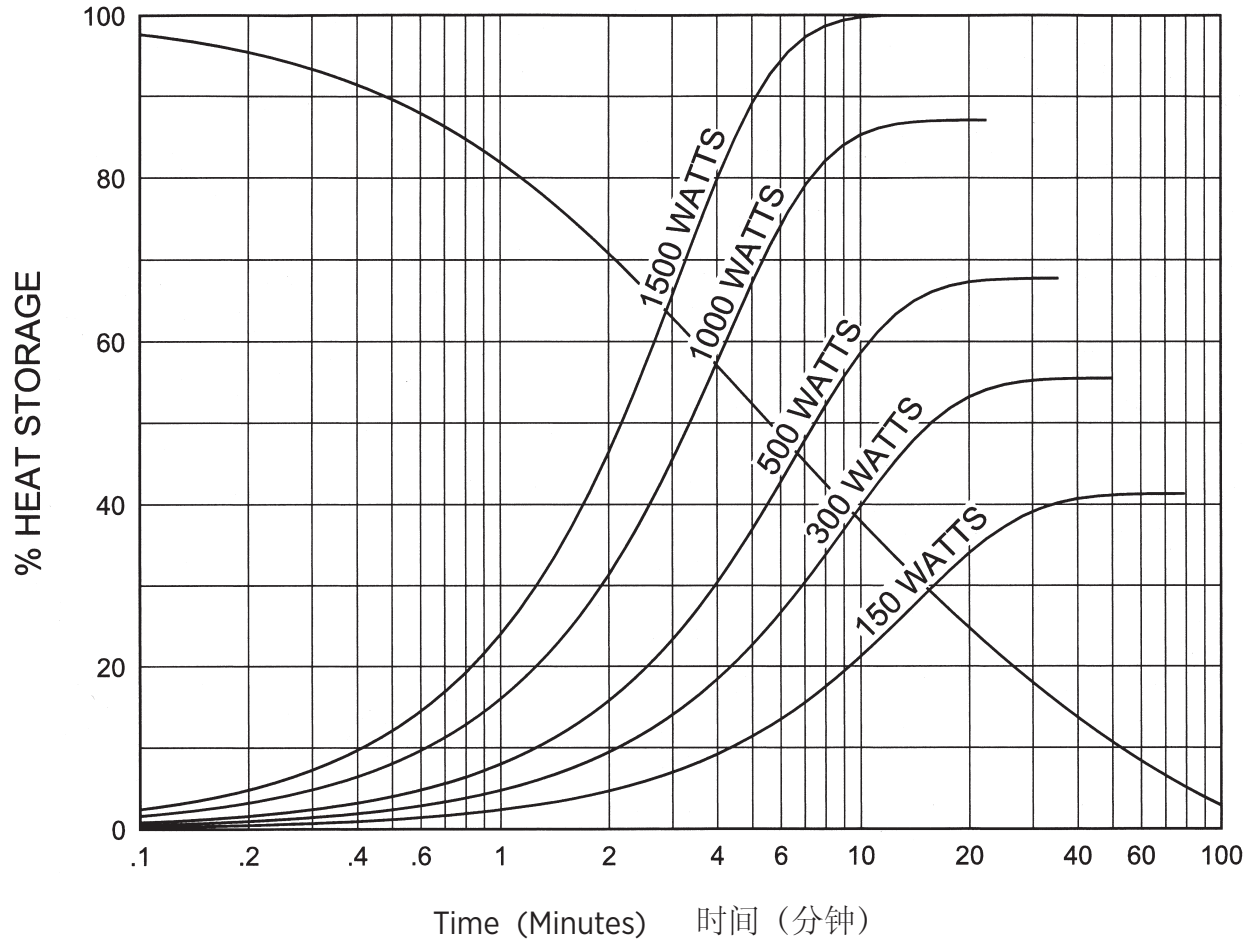
3 Ø 全波



Note:
When using these emission curves for trial exposures, refer to the power rating curves shown for maximum kV, tube emission, filament current, exposure time, and target speed.

注释:
当为试验曝光使用这些辐射曲线时, 请同时参考额定功率曲线中与最大管电压、管电流、灯丝电流、曝光时间和阳极靶转速相关的限制条件。

ANODE HEATING AND COOLING CURVES 阳极加热与冷却曲线





Salt Lake City, UT 1-801-972-5000

有关我们全球办事处的完整列表,
访问www.vareximaging.com

Manufactured by Varex Imaging Corporation
由万睿视影像有限公司生产

Specifications subject to change without notice.
规格如有更改，恕不另行通知。