

How to find the right rectifier

如何选择合适的整流器

The schematic below should help the planning user to find out the right DC supply.

以下示意图可以帮助计划用户找到适合自己的DC电源供给。

It is really simple to follow this schematic. It starts above at the right side with the definition of the process itself. This predertermines automatically which current and which voltage are necessary. All boundary parameters are parallely mentioned on the left side.

这张示意图很简单，从右上边开始，首先界定工艺流程。这就自动确立了哪些电流、电压条件是必须的，所有边界参数则并排列在左侧一栏。

As shown in another schematic, the degree of protection can be found. Also here, some fundamental reflections have to be made, e.g. concerning ambient conditions, fresh air supply or separate rooms. From the cooling modes one version has to be selected. Here the output current serves as leading figure. If water as cooling mode is possible, this is recommended.

在另外一张示意图中，可以找到防护等级的内容，这里仅列出一些最基本的反射信息，如与环境条件相关的，新鲜供风系统或独立空间之类的信息。必须选择一种冷却模式，这里将输出电流作为主要参数。如果可以选择水冷却模式，建议如此操作。

The most important decision is taken with the selection of the possible power control. From the start, switching mode power supplies have an uncritical ripple. When selecting the version with thyristor, once again the process has to be observed to decide upon the ripple.

选择可能的电源控制方式是非常重要的决策步骤。从示意图一开始，开关模式电源供给就有波纹。因此当选择可控硅形式时，应注意该工艺过程，对波纹形式做出决定。

From the environmental point of view it has to be considered, if oil still is the right cooling mode for the user. High efficiency and acceptable mains conduct have to be considered with regard to energy technics. A high degree of utilization, e.g. at multi shift operation, requires a design which is easy to service to realize short down times in case of maintenance.

从环境角度出发，则必须考虑对于用户来说，是否油冷却方式是最合适的。高效

令人满意的进线导线必须考虑相关的能量技术参数。高利用率，比如轮班作业时，需要考虑设计易于操作，能够实现短时间暂停，以便维护。

Before the rectifier can be defined, first the mode of operation has to be selected: pulse operation, polarity reverse operation, rectifier operation. Here it has to be observed, if e.g. a chrome rectifier with polarity reverse corrode/chrome is necessary. Or if for an ED coating rectifier further technical options have to be included.

在确定整流器之前，应先选择操作模式：脉冲操作、电极反向操作、整流器操作方式，这点应特别注意！举例来说，如果是电极反向操作，则必须选择硬铬整流器，另外如果是电着涂装整流器，则应考虑更多的技术参数选项。

Another important criterion for decisions is the budget available or the financial limit where technical points of view may fall through.

Independently from the schematic, the control methods have to be mentioned.

When selecting the optimum rectifier we are always prepared to offer sufficient support.

另外一个影响决策的重要因素是预算标准或者说经济底线，没有经济基础，技术参数都是空谈。除了示意图所示因素，也应考虑控制方法。一旦选中了最适宜的整流器，我们将时刻准备给予您充分的支持。



