



EXPERT

EXAL18V2-320



Robert Bosch Power Tools GmbH
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www.bosch-professional.com

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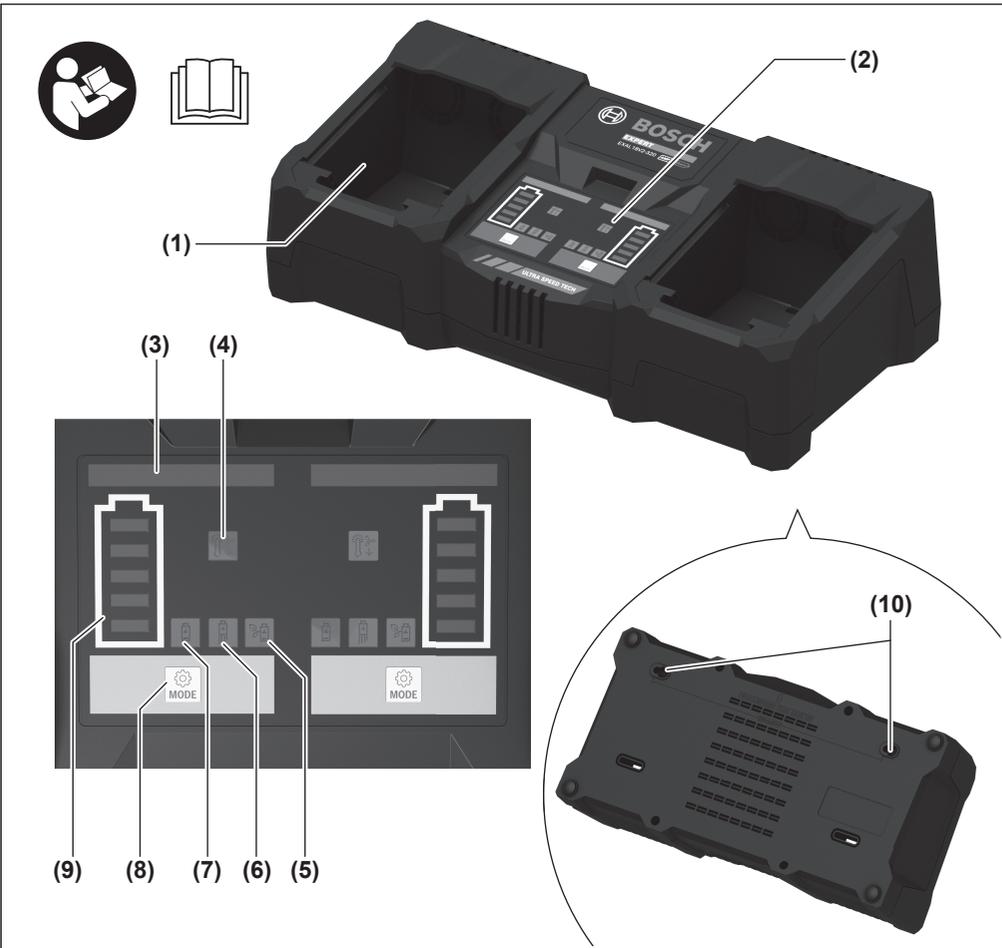


Powered by



zh 正本使用说明书





| 2x EXBA18V... | -40 | -55 | -80 | -150 |
|---|--------|--------|--------|--------|
| Power Boost  ≈ 50% | 9 min | 11 min | 16 min | 27 min |
| Power Boost  ≈ 100% | 30 min | 31 min | 39 min | 60 min |

中文

安全规章



请阅读所有安全规章和指示。不遵照以下警告和说明可能导致电击、着火和/或严重伤害。

妥善保存本使用说明书。

在完全了解机器的所有功能，以及能够不受限制地执行各功能或取得相关的使用指示之后，才能够使用本充电器。

- ▶ 儿童和身体、感官或精神上有缺陷或缺乏经验与知识的人员不得使用本充电器。对于八岁以上的儿童和身体、感官或精神上有缺陷或缺乏经验与知识的人员，倘若其得到负责其安全的人员监护或接受过监护人有关充电器使用的指导并了解到可能的危险，则可以使用本充电器。否则会有误操作和人身伤害的危险。
- ▶ 在使用、清洁和保养时请看管好儿童。确保儿童不会使用本充电器玩耍。
- ▶ 只能给容量在1.3安培小时以上的Bosch锂离子电池或AMPShare合作款电池充电。电池电压必须与充电器的电池的充电电压相匹配。切勿给非充电型电池充电。否则存在着火和爆炸的危险。



仅在密闭空间内使用本充电器，并使其远离潮湿。水进入充电器将增加电击危险。

- ▶ 保持充电器的清洁。污染会产生触电的危险。
- ▶ 每次使用前都要检查充电器，包括电源线和插头。一旦发现充电器损坏，请勿使用。请勿自行打开充电器，只能由Bosch或由经授权的客户服务中心用原厂配件进行维修。损坏的充电器、电源线和插头会增加使用者触电的危险。
- ▶ 不要在可燃的底板（如纸张、织物等）上或可燃环境中使用充电器。因充电器在充电时会变热，存在火灾危险。
- ▶ 不要盖住充电器的通风孔。否则充电器会过热并且无法正常工作。
- ▶ 只用制造商规定的充电器充电。将适用于某种电池盒的充电器用到其他电池盒时会发生着火危险。
- ▶ 如果充电电池损坏或者未按照规定使用，充电电池中也会散发出有毒蒸汽。工作场所必须保持空气流通，如果身体有任何不适必须马上就医。蓄电池散发的蒸汽会刺激呼吸道。
- ▶ 在滥用条件下，液体会从电池中溅出；避免接触。如果意外碰到了，用水冲洗。如果液体碰到了眼睛，还要寻求医疗帮助。从电池中溅出的液体会发生腐蚀或燃烧。

本充电器只配有功能性接地。



产品和性能说明

按照规定使用

充电器用于为可重复充电的Bosch或AMPShare合作伙件的锂离子充电电池充电。

插图上的机件

图示组件的编号和充电器插图上的一致。

- (1) 充电槽
- (2) 操作面板
- (3) 状态指示灯
- (4) Active Air Cooling指示灯
- (5) Long Life充电模式指示灯
- (6) Power Boost充电模式指示灯
- (7) 标准充电模式指示灯
- (8) MODE按钮
- (9) 电量指示灯
- (10) 墙壁悬挂装置
- (11) 安全接片
- (12) 电缆输出端

技术数据

| 充电器 | EXAL18V2-320 |
|------------------|------------------------------|
| 保护等级 | □ / II |
| 最大充电电流（每个充电槽） | 32安培（16安培） |
| 充电电池充电电压（自动辨识电压） | 18伏特 $\overline{\text{---}}$ |
| 重量 ^{A)} | 2.2公斤 |

A) 不含电源线和电源插头的重量

数值可能因不同产品而异，并且受到应用和环境条件影响。更多信息请参见www.bosch-professional.com/wac。

充电过程

- ▶ **注意电源电压！** 电源的电压必须和充电器铭牌上标示的电压数据一致。

① 确保充电槽(1)和充电电池触点上没有大块污物。确保已将充电电池完全插入。

一旦充电器的电源插头插入电源插座，充电电池插入充电槽(1)，充电过程就启动。

① 2个充电槽可以彼此独立地充电。

① 仅当充电电池的温度在许可的充电温度范围内时，才可以充电：

- GBA 18V...: 0摄氏度至45摄氏度
- EXBA18V...: -10摄氏度至55摄氏度

通过智能充电法，能够自动识别充电电池的电量，并根据充电电池的温度和电压以及所选的充电模式以最佳充电电流进行充电。

充电后如果充电电池的使用时间明显缩短，代表充电电池已经损坏，必须更换新的充电电池。

在持续或者不间断地先后使用充电器后，可能导致充电器变热。不过无需担心，这并不表示充电器存在技术故障。

充电时间

以下表格列举了充电至期望电量所需的大致时间（取决于电池类型和充电模式），单位为分钟。充电时间可能有所差别。更多信息请参见：

www.bosch-professional.com/wac。

Power Boost充电模式

以下充电时间适用于同时为一个或两个充电电池充电。

| 充电电池 |  |  |
|----------------|---|---|
| 2x EXBA18V-40 | ≈9 | ≈30 |
| 2x EXBA18V-55 | ≈11 | ≈31 |
| 2x EXBA18V-80 | ≈16 | ≈39 |
| 2x EXBA18V-150 | ≈27 | ≈60 |



相当于 ≈ 50% 的电量



相当于满电量

标准充电模式

以下充电时间适用于同时为一个或两个充电电池充电。

| 充电电池 |  |
|----------------|---|
| 2x EXBA18V-40 | ≈37 |
| 2x EXBA18V-55 | ≈35 |
| 2x EXBA18V-80 | ≈46 |
| 2x EXBA18V-150 | ≈60 |



相当于满电量

充电过程

如需为充电电池充电，有3种不同的充电模式可供选择。按压MODE按钮(8)，以便在以下充电模式之间切换：

- 标准充电模式
- Power Boost充电模式
- Long Life充电模式

控制面板(2)上相应的符号亮起。

标准充电模式



以标准速度将充电电池充满电。标准充电模式已在充电器上预设。参考表格中的标准充电模式下的充电时间：（参见“充电时间”，页 5）

标准充电模式指示灯(7)在充电期间亮起。

Power Boost充电模式

以最快的充电速度将充电电池充满电。从表格中查看使用Power Boost的充电时间：（参见“充电时间”，页 5）



Power Boost充电模式指示灯(6)在快速充电期间亮起。

Long Life充电模式

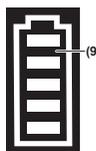


以较慢的充电速度将充电电池充满电。这对充电电池的使用寿命有积极的影响。

Long Life充电模式指示灯(5)在充电期间亮起。

其他显示元件的含义

电量指示灯



电量指示灯闪烁表示正在进行充电。

如果充电电池充满电，则电量指示灯(9)的所有格数长亮为绿色。

状态指示灯

状态指示灯长亮绿色



状态指示灯(3)长亮绿色表示没有故障，充电器准备就绪。如果充电电池位于充电槽(1)中，则状态指示灯(3)长亮绿色表示充电器正在无故障地为充电电池充电。

如果充电电池已充满电，则状态指示灯(3)继续亮起绿色。

温度监控状态指示灯长亮黄色



状态指示灯(3)长亮黄色表示充电电池的温度超出允许的充电温度范围（参见“充电过程”，页 4）。

一旦达到允许的充电温度范围，充电过程开始且状态指示灯切换为绿色。

故障状态指示灯长亮/闪烁红色



- (3) 状态指示灯(3)长亮/闪烁红色表示充电电池或充电器有故障。

Active Air Cooling (冷却充电电池)

充电器监控已装入的充电电池的温度。按需自动开启风扇，以冷却充电电池。

充电电池冷却装置以3个档位运作：

- 预冷却
- 在充电过程中冷却
- 再冷却

- (i) 充电器具备自己的冷却装置，独立于充电电池冷却装置而运行。



(3) 预冷却

- (4) 如果充电电池温度在开始充电过程前就高于允许的充电温度范围(参见“充电过程”，页4)，则激活风扇，以冷却充电电池。

一旦充电电池温度达到允许的充电温度范围，充电过程就开始。

在预冷却期间充电电池冷却装置按以下方式显示：

Active Air Cooling指示灯(4)亮起绿色，状态指示灯(3)亮起黄色。



(3) 在充电过程中冷却

- (4) 如果充电器在充电过程中识别到冷却充电电池有好处，则会激活风扇。

在充电过程中充电电池冷却装置按以下方式显示：

Active Air Cooling指示灯(4)亮起绿色，状态指示灯(3)亮起绿色，电量指示灯(9)的格数依次亮起绿色。



(3) 再冷却

- (4) 如果充电器在充电过程后识别到冷却充电电池有好处，则会激活风扇。

在再冷却期间充电电池冷却装置按以下方式显示：

Active Air Cooling指示灯(4)亮起绿色，状态指示灯(3)亮起绿色，电量指示灯(9)的所有格数亮起绿色。

运行

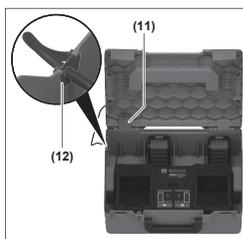
- ▶ 在充电器上进行所有操作之前都必须从插座上拔出电源插头。

充电器可以竖立使用(在桌面上使用)，也可以悬挂在墙壁上使用。

在L-BOXX中使用

- ▶ L-BOXX的盖子在充电过程中必须保持完全打开。安全接片必须已固定在L-BOXX的盖子上。充电器的电缆必须穿过L-BOXX中的电缆输出端。

- (i) L-BOXX不属于基本供货范围。

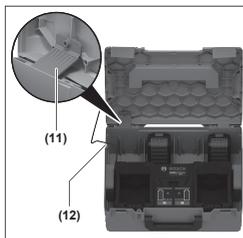


- (12)，将电源插头插入插座。

安装充电器

请执行以下步骤，以便在L-BOXX中运行充电器：

- 完全打开L-BOXX的盖子，直至安全接片(11)卡止。安全接片(11)可防止L-BOXX的盖子意外关闭。
- 将充电器的电缆穿过L-BOXX中的电缆输出端



在L-BOXX中运输的准备

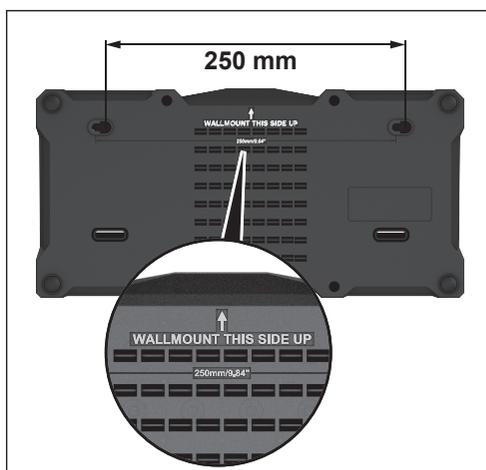
运行结束后，在L-BOXX中运输前，执行以下步骤：

- 将电缆的电源插头从插座中拔出。
- 将充电器的电缆从电缆输出端(12)取出，将其存放在L-BOXX中

并确保其不被夹住。

- 如需关闭L-BOXX，将安全接片(11)稍微抬起。由此可以通过安全接片松开锁止装置。
- 完全关闭L-BOXX的盖子。

固定在墙壁上



如需通过墙壁悬挂装置(10)固定在墙壁上：按照

250 mm的间隔钻两个孔。使用直径5毫米至最大6.5毫米的圆头螺栓进行固定。

固定在墙壁上时要注意充电器底部上的箭头所指的安装方向。充电电池的导轨朝上指。

故障排除

充电电池不充电

充电电池不充电且指示灯不亮起

成因：未插上或者未正确插好充电器的电源插头

解决措施：将电源插头（完全）插入插座。

成因：插座、电线或充电器有故障

解决措施：检查电线和电源插头。必要时将充电器交由经授权的客户服务中心检查。

充电电池不充电且两个状态指示灯(3)亮起红色

成因：充电器发现一个内部故障

解决措施：拔下电源插头，确保充电器已冷却。重新插入电源插头。必要时将充电器交由经授权的客户服务中心检查。

无法为充电电池充电且一个状态指示灯(3)亮起红色

成因：充电器发现充电电池故障

解决措施：确保充电电池已完全且正确地插入，充电电池和/或充电触点干净。拔下再重新插入电源插头。如果该故障再次出现，将充电电池交给授权的客户服务中心检查。

成因：充电电池损坏

解决措施：更换充电电池。

无法为充电电池充电且状态指示灯(3)亮起黄色

成因：充电电池温度超出允许的充电温度范围

解决措施：如果充电电池温度高于允许的充电温度范围(参见“充电过程”，页 4)，充电器的Active Air Cooling功能自动开启并冷却充电电池，直至充电电池温度再次位于允许的充电温度范围内(参见“Active Air Cooling (冷却充电电池)”，页 6)。

如果充电电池温度低于允许的充电温度范围(参见“充电过程”，页 4)，等待至充电电池温度再次位于允许的充电温度范围内。

维修和服务

维修和清洁

如果必须更换连接线，务必把这项工作交给Bosch或者经授权的Bosch电动工具顾客服务执行，以避免危害机器的安全性能。

客户服务和应用咨询

中国大陆

电话：400 826 8484-3-2

制造商地址：

Robert Bosch Power Tools GmbH

罗伯特·博世电动工具有限公司

70538 Stuttgart / GERMANY

70538 斯图加特 / 德国

询问和订购备件时，务必提供机器铭牌上标示的10位数物品代码。

处理废弃物

必须以符合环保的方式回收再利用充电器、附件和包装材料。



不可以把充电器丢入一般的家庭垃圾中!

产品中有害物质的名称及含有的信息表

| 部件名称 | 有害物质 | | | | | | | | | |
|------|-----------|-----------|-----------|-----------------|----------------|----------------------|----------------------------|-----------------------------|---------------------------|--------------------------------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr(VI)) | 多溴联苯 (PBBs) | 多溴二苯 醚 (PBDEs) | 邻苯二 甲酸二 正丁酯 (DBP) | 邻苯二 甲酸二 异丁酯 (DIBP) | 邻苯二 甲酸丁 苯酯 (BBP) | 邻苯二 甲酸二 (2-乙基) 己酯 (DEHP) |
| 电路板① | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 端子② | X | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

注1:

o: 表示该有害物质在该部件所有均质材料中的含量均不出电器电子产品有害物质限制使用国家标准要求。

x: 表示该有害物质至少在该部件的某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。

注2:

以上未列出的部件，表明其有害物质含量均不出电器电子产品有害物质限制使用国家标准要求。

①适用于电池包和充电器

②仅适用于充电器

产品环保使用期限内的使用条件参见产品说明书。

Legal Information and Licenses

1. Open Source Components

1.1 Name: ARM_CMSIS_5

Version : 5.7.0

License : Apache-2.0

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1.2 Name: STM32G0_HAL

Version : 1.3.0

License : BSD-3-Clause

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1.3 Name: cmsis_device_g0

Version: 1.4.2

License : Apache-2.0

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