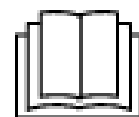


EXPERT

EXAL18V-160



Sigurnosne napomene



Treba pročitati sve sigurnosne napomene i upute. Propusti do kojih može doći uslijed nepridržavanja sigurnosnih

napomena i uputa mogu uzrokovati električni udar, požar i/ili teške ozljede.

Dobro čuvajte ove upute.

Punjač koristite samo ako su sve njegove funkcije potpuno ispravne i ako se mogu provesti bez ograničenja ili ako se pridržavate odgovarajućih uputa.

- **Ovaj punjač ne smiju koristiti djeca i osobe s ograničenim fizičkim, osjetilnim i mentalnim sposobnostima ili nedostatnim iskustvom i znanjem. Ovaj punjač smiju koristiti djeca starija od 8 godina i osobe s ograničenim fizičkim, osjetilnim ili mentalnim sposobnostima ili osobe s nedostatnim iskustvom i znanjem ako ih nadzire osoba odgovorna za njihovu sigurnost i ako ih uputi u sigurno rukovanje i opasnosti povezane s rukovanjem punjača.** U suprotnom postoji opasnost od pogrešnog rukovanja i ozljeda.
- **Djeca moraju biti pod nadzorom prilikom korištenja, čišćenja i održavanja.** Na taj način ćete osigurati da se djeca ne igraju s punjačem.
- **Punite samo Bosch litij-ionske aku-baterije ili aku-baterije AMPShare partnera kapaciteta od najmanje 1,3 Ah. Napon aku-baterije mora odgovarati naponu punjača aku-baterija. Ne punite aku-baterije koje se ponovno ne mogu puniti.** U suprotnom postoji opasnost od požara i eksplozije.



Punjač koristite samo u zatvorenom prostoru i držite ga dalje od vlage. Prodiranje vode u punjač povećava opasnost od električnog udara.

- **Punjač održavajte čistim.** Zbog nečistoće postoji opasnost od električnog udara.
- **Prije svake uporabe provjerite punjač uklj. kabel i utikač. Punjač ne koristite ako ste ustanovili oštećenja. Punjač ne otvarajte sami i popravak prepustite samo Bosch ili ovlaštenim servisima i samo s originalnim rezervnim dijelovima.** Oštećeni punjači, kabel i utikač povećavaju opasnost od električnog udara.
- **Ne radite punjačem na lako zapaljivoj podlozi (npr. papir, tekstil itd.) odn. u zapaljivoj okolini.** Zbog zagrijavanja punjača pri punjenju postoji opasnost od požara.
- **Ne prekrivajte otvore za hlađenje punjača.** U suprotnom se punjač može pregrijati i neće više ispravno raditi.
- **Akumulatorsku bateriju puniti isključivo punjačima koje preporučuje proizvođač.** Ako punjač predviđen za

jednu određenu vrstu kompleta baterija rabite s drugim kompletom baterija, postoji opasnost od požara.

- **U slučaju oštećenja i nestručne uporabe aku-baterije mogu se pojaviti čak i pare.** Dovedite svježi zrak i u slučaju poteškoća zatražite pomoć liječnika. Pare mogu nadražiti dišne puteve.
- **Kod pogrešne primjene iz baterije može isteći tekućina. Izbjegavajte kontakt s ovom tekućinom. Kod slučajnog kontakta zahvaćeno mjesto treba isprati vodom. Ako vam tekućina uđe u oči, zatražite pomoć liječnika.** Tekućina istekla iz baterije može uzrokovati nadraženost kože i opekline.

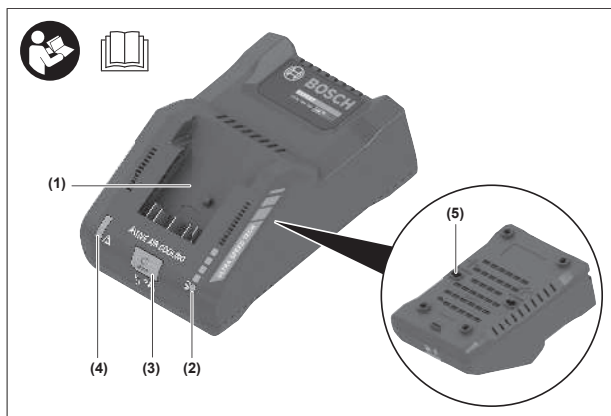
Opis proizvoda i funkcija

Namjenska uporaba

Punjač je namijenjen za punjenje Bosch litij-ionskih aku-baterija koje se mogu ponovno puniti ili onih AMPShare partnera.

Prikazani dijelovi alata

Numeriranje prikazanih dijelova odnosi se na prikaz punjača na slikama.



- (1) Otvor za punjenje
- (2) Zeleni pokazivač stanja napunjenosti
- (3) Tipka MODE
- (4) Crveni pokazivač nadzora temperature/smetnje
- (5) Zidni držač

Tehnički podaci

Punjač	EXAL18V-160
Klasa zaštite	□ / II
Struja punjenja ^{A)}	16 A
Napon punjenja aku-baterija (automatsko prepoznavanje napona)	14,4–18 V

Punjač	EXAL18V-160
Težina ^{B)}	0,95 kg

A) Ovisno o temperaturi i tipu aku-baterije

B) Težina bez mrežnog priključnog voda i bez mrežnog utikača

Vrijednosti se mogu razlikovati ovisno o proizvodu i ovise o uvjetima primjene i okoline. Dodatne informacije na

www.bosch-professional.com/wac.

Punjenje

► **Pridržavajte se mrežnog napona!** Napon izvora struje mora se podudarati s podacima na tipskoj pločici punjača.

i) Provjerite da na otvoru za punjenje **(1)** i kontaktima aku-baterije nema krupne prljavštine. Provjerite je li aku-baterija umetnuta do kraja.

Proces punjenja započinje tek kada mrežni utikač punjača utaknete u utičnicu i aku-bateriju utaknete u otvor za punjenje **(1)**.

i) Proces punjenja je moguć samo ako je temperatura aku-baterije u dopuštenom području temperature punjenja:

– **GBA 18V...** : 0 °C ... 45 °C

– **EXBA18V...** : –10 °C ... 55 °C

Inteligentnim procesima punjenja se automatski prepoznaje stanje napunjenosti aku-baterije i ovisno o temperaturi aku-baterije i naponu aku-baterije te odabranom načinu punjenja puni se optimalnom strujom punjenja.

Bitno skraćanje vremena rada nakon punjenja pokazuje da je aku-baterija istrošena i da je treba zamijeniti.

Kod kontinuiranih, odnosno višekratno uzastopnih ciklusa punjenja bez prekida, punjač bi se mogao zagrijati. To nije opasno i ne ukazuje na tehnički kvar punjača.

Vremena punjenja

U sljedećoj tablici možete pronaći približno potrebno vrijeme u minutama za željeno stanje napunjenosti ovisno o tipu aku-baterije i načinu punjenja. Vremena punjenja mogu se razlikovati. Dodatne informacije naći ćete na internetskoj stranici: www.bosch-professional.com/wac.

Način punjenja Power Boost

Aku-baterija		
EXBA18V-40	≈ 9	≈ 30
EXBA18V-55	≈ 11	≈ 31
EXBA18V-80	≈ 16	≈ 39
EXBA18V-150	≈ 27	≈ 60



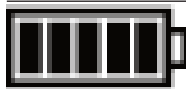
odgovara stanju napunjenosti od ≈ 50 %



odgovara potpunom stanju napunjenosti

Način standardnog punjenja

Aku-baterija	
EXBA18V-40	≈ 37
EXBA18V-55	≈ 35
EXBA18V-80	≈ 46
EXBA18V-150	≈ 60



odgovara potpunom stanju napunjenosti

Proces punjenja

Za punjenje aku-baterija možete birati između 3 različita načina punjenja. Pritisnite tipku MODE **(3)** kako biste se prebacivali između sljedećih načina punjenja:

- Način standardnog punjenja
- Način punjenja Power Boost
- Način punjenja Long Life

Način standardnog punjenja



Aku-baterija se puni do kraja. Ovaj način punjenja je zadan na punjaču. Tipka MODE **(3)** ne svijetli. Način standardnog punjenja je kombinacija brzog punjenja i potpunog punjenja aku-baterije.

Način punjenja Power Boost

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

U ovom se načinu aku-baterije pune do kraja najvećom brzinom punjenja. U tablici možete pronaći vremena punjenja s funkcijom Power Boost: (vidi „Vremena punjenja“, Stranica 3)



Tipka MODE **(3)** svijetli crveno tijekom brzog punjenja.

Način punjenja Long Life



Aku-baterija se puni do kraja. Pritom se aku-baterija puni pažljivo, ali i sporije. To znatno produljuje vijek trajanja aku-baterije.

Tipka MODE **(3)** svijetli zeleno tijekom punjenja.

Značenje elemenata pokazivača

Zeleni pokazivač stanja napunjenosti

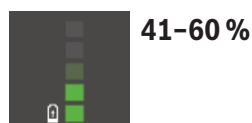
Treperenje pokazivača stanja napunjenosti **(2)** signalizira proces punjenja.



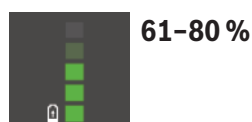
0-20 %



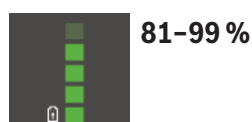
21-40 %



41-60 %



61-80 %



81-99 %



Potpuno napunjena

Stalno svijetli crveni pokazivač nadzora temperature

Stalno svijetlo crvenog indikatora **(4)** signalizira da je temperatura aku-baterije izvan dopuštenog područja temperature punjenja (vidi „Punjenje“, Stranica 3). Čim se dosegne dopušteno područje temperature, počinje proces punjenja.

Treperi crveni pokazivač smetnje

Treptajuće svjetlo crvenog pokazivača **(4)** signalizira da je aku-baterija ili punjač neispravan.

Hlađenje aku-baterije (Active Air Cooling)

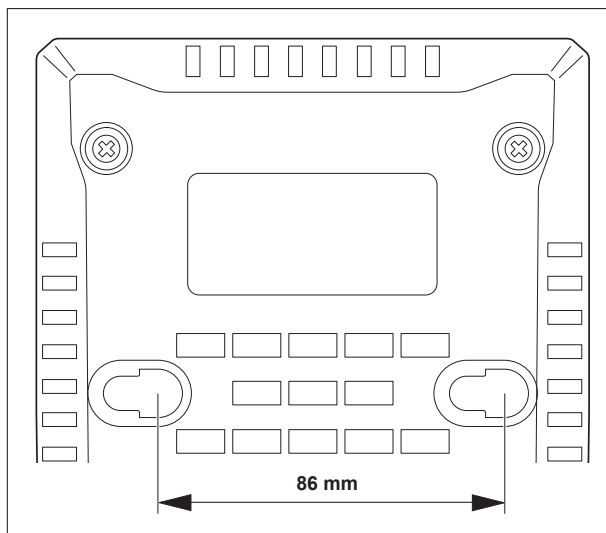
Upravljanje ventilatorom integrirano u punjaču nadzire temperaturu umetnute aku-baterije. Ako je temperatura aku-

baterije viša od cca. 0 °C, ventilator se uključuje. Pritom uključeni ventilator proizvodi šumove ventilacije.

Ako ventilator ne radi, onda je u kvaru ili temperatura aku-baterije iznosi < 0 °C. Stoga se može produžiti vrijeme punjenja.

Montaža na zid

► Prije svih radova na punjaču izvucite mrežni utikač iz utičnice.



Punjač može raditi u stojećem položaju (rad na stolu) ili u visećem položaju na zidu.

Za pričvršćivanje na zid: Izbušite 2 rupe na udaljenosti od **86 mm**. Za pričvršćivanje upotrebljavajte vijke s okruglom glavom promjera 5 mm do maks. 6,5 mm.

Uklanjanje pogreške

Aku-baterija se ne puni

Aku-baterija se ne puni i crveni pokazivač nadzora temperature/smetnje (4) treperi crveno.

Uzrok: Punjač je otkrio internu smetnju

Pomoć: Provjerite jesu li sve aku-baterije umetnute do kraja. Izvucite i ponovno utaknite mrežni utikač. Ako se smetnja ponovno pojavi, po potrebi odnesite punjač na ispitivanje ovlaštenom servisu za **Bosch** električne alate.

Uzrok: Aku-baterija nije ispravno utaknuta

Pomoć: Ispravno umetnite aku-bateriju u punjač.

Uzrok: Aku-baterija i kontakti za punjenje su zaprljani

Pomoć: Izvucite mrežni utikač i očistite kontakte aku-baterije i kontakte za punjenje (obrišite).

Uzrok: Neispravna aku-baterija

Pomoć: Zamijenite aku-bateriju.



Aku-baterija se ne puni i pokazivač (4) svijetli crveno.

Uzrok: Temperatura aku-baterije je izvan dopuštenog područja temperature punjenja

Pomoć: Pričekajte dok temperatura aku-baterije ponovno ne bude u dopuštenom području temperature punjenja (vidi „Punjenje“, Stranica 3).

Pokazivači ne svijetle

Pokazivač ne svijetli, aku-baterija se ne puni.

Uzrok: Neispravna utičnica, neispravni mrežni kabel ili punjač

Pomoć: Provjerite je li punjač utaknut u prikladnu i funkcionalnu utičnicu. Ako se smetnja ponovno pojavi, po potrebi odnesite punjač na ispitivanje ovlaštenom servisu.

Uzrok: Mrežni utikač punjača nije (ispravno) utaknut

Pomoć: Utaknite mrežni utikač (do kraja) u utičnicu.

FAQ



Koji je punjač prikladan za moju aku-bateriju?

Sve su 18 V aku-baterije kompatibilne sa svim Bosch Professional 18 V punjačima i svim 18 V punjačima AMPShare partnera.

Za profesionalne korisnike preporučujemo kombiniranje punjača s aku-baterijom čije je vrijeme punjenja kraće od 1 sata.

Sva vremena punjenja možete pronaći u online uputama za uporabu ili na internetskoj stranici Bosch Professional.



Koja su vremena punjenja moje aku-baterije?

Vrijeme punjenja aku-baterije ovisi o 2 faktorima:

- tipu aku-baterije i kapacitetu aku-baterije
- brzini punjenja



Mogu li prilagoditi brzinu punjenja punjača?

Kod **EXAL18V-160** možete prilagoditi brzinu punjenja svojim potrebama. **EXAL18V-160** ima 3 načina punjenja koji su optimizirani za raznoliku uporabu aku-baterija:

- Način standardnog punjenja sa standardnom brzinom punjenja: Način standardnog punjenja tvornički je zadan (vidi „Način standardnog punjenja“, Stranica 3).
- Način punjenja Power Boost: Način punjenja Power Boost možete aktivirati tipkom MODE na punjaču Način Power Boost.
- Način punjenja Long Life: Način vijeka trajanja možete aktivirati tipkom MODE na punjaču (vidi „Način punjenja Long Life“, Stranica 3). Uglavnom punjenje u načinu vijeka trajanja uzrokuje dulji vijek trajanja aku-baterije.



Smiju li aku-baterije ostati u punjaču nakon što su potpuno napunjene?

Kada je aku-baterija potpuno napunjena i to pokazuje punjač, onda je proces punjenja završen.

Aku-baterija može ostati u punjaču, ali ne preporučujemo skladištenje aku-baterije u punjaču dulje vrijeme.



Pri kojim temperaturama treba puniti, upotrebljavati i skladištiti aku-bateriju?

- Dopuštena temperatura okoline pri radu i kod skladištenja je –20 °C do 50 °C.
- Preporučena temperatura okoline tijekom punjenja je 0 °C do 35 °C.
- Za optimalan vijek trajanja aku-baterije preporučujemo skladištenje aku-baterije pri 0 °C do 20 °C.



Koje je optimalno punjenje aku-baterije za dulje vrijeme skladištenja?

Za dulje skladištenje idealno je stanje napunjenosti od 30–50 %.



Jesu li aku-baterije serije Bosch Professional kompatibilne s drugim markama?

Sve aku-baterije serije Bosch Professional 18 V kompatibilne su sa sljedećim proizvodima:

- svi proizvodi Bosch Professional 18 V sustava
- svi proizvodi AMPShare partnera



Koje je optimalno punjenje aku-baterije za dulji vijek trajanja?

Za dulji vijek trajanja idealno je stanje napunjenosti od 80 %.

zbrinjavanje može biti štetno za okoliš i zdravlje zbog opasnih tvari koje može sadržavati.

Jamstvo proizvođača



<https://www.bosch-pt.com/guarantee/202601>

Održavanje i servisiranje

Održavanje i čišćenje

Ako je potrebna zamjena priključnog kabela, tada je treba provesti u **Bosch** servisu ili u ovlaštenom servisu za **Bosch** električne alate kako bi se izbjeglo ugrožavanje sigurnosti.

Servisna služba i savjeti o uporabi



<https://www.bosch-pt.com/serviceaddresses>

Hrvatski

Tel.: +385 12 958 051

U slučaju upita ili naručivanja rezervnih dijelova, molimo vas obavezno navesti 10-znamenkasti kataloški broj s tipske pločice proizvoda.

Zbrinjavanje

Punjače, pribor i ambalažu treba dovesti na ekološki prihvatljivo recikliranje.



Punjače ne bacajte u kućni otpad!

Samo za zemlje EU:

Električni i elektronski uređaji koji više nisu uporabivi, moraju se odvojene sakupljati i zbrinuti na ekološko prihvatljiv način. Koristite predviđene sustave prikupljanja otpada. Nepravilno

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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**

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1.3 Name: **cmsis_device_g0**

Version: **1.4.2**

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