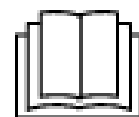


EXPERT

EXAL18V-160



Bezbednosne napomene



Pročitajte sve bezbednosne napomene i uputstva. Propusti u poštovanju bezbednosnih napomena i uputstava mogu da

prouzrokuju električni udar, požar i/ili teške povrede.

Dobro čuvajte ova uputstva.

Koristite uređaj za punjenje samo, ako ste u potpunosti procenili sve funkcije i možete da ih izvedete bez ograničenja ili ako ste dobili odgovarajuća uputstva.

- ▶ **Nije predviđeno da ovim punjačem rukuju deca ili lica sa ograničenim fizičkim, čulnim i mentalnim sposobnostima ili nedovoljnim iskustvom i znanjem.** Ovaj punjač mogu da koriste deca od 8 godina i lica sa ograničenim psihičkim, čulnim ili mentalnim sposobnostima ili lica sa nedostatkom iskustva i znanja, ukoliko ih nadzire lice koje je odgovorno za njihovu sigurnost ili ako ih ono uputi u siguran rad sa punjačem i ako razumeju s time povezane opasnosti. U suprotnom postoji opasnost od pogrešnog rukovanja i povreda.
- ▶ **Prilikom korišćenja, čišćenja i održavanja nadzirite decu.** Na taj način obezbeđujete, da se deca ne igraju punjačem.
- ▶ **Punite samo Bosch litijum-jonske akumulatore ili akumulatore AMPShare partnera od kapaciteta najmanje 1,3 Ah. Napon akumulatora mora da odgovara naponu punjenja akumulatora na punjaču. Nemojte da punite akumulatore koji nisu za ponovno punjenje.** U suprotnom postoji opasnost od požara i eksplozije.



Punjač koristite samo u zatvorenim prostorima i držite ga dalje od vlage. Prodor vode u punjač povećava rizik od električnog udara.

- ▶ **Održavajte čistoću punjača.** Zbog nečistoće postoji opasnost od električnog udara.
- ▶ **Pre svake upotrebe prekontrolišite punjač, uklj. kabl i utikač.** Nemojte da koristite punjač, ukoliko primetite oštećenja. Nemojte samostalno da otvarate uređaj za punjenje i prepustite isključivo stručnom osoblju Bosch ili ovlašćenim servisima da vrši popravke i isključivo sa originalnim rezervnim delovima. Oštećeni punjači, kablovi i utikači povećavaju rizik od strujnog udara.
- ▶ **Ne koristite punjač na lako zapaljivim podlogama (npr. papiru, tekstilu itd), tj. u lako zapaljivom okruženju.** Zbog zagrevanja punjača usled punjenja postoji opasnost od požara.
- ▶ **Nemojte da prekrivate proreze za ventilaciju na punjaču.** Inače, punjač može da se pregrije i ne može više pravilno da funkcioniše.

- ▶ **Punite samo u aparatima za punjenje, koje je preporučio proizvođač.** Punjač koji je pogodan za jednu vrstu akumulatorske baterije može stvoriti rizik od požara ako se koristi za drugačiju akumulatorsku bateriju.
- ▶ **Kod oštećenja i nestručne upotrebe akumulatora mogu izlaziti pare.** Dovedite svež vazduh i potražite lekara ako dođe do tegoba. Para može nadražiti disajne puteve.
- ▶ **Kod pogrešne primene iz akumulatorske baterije može biti izbačena tečnost. Izbegavajte kontakt sa njom.** Kod slučajnog kontakta isperite sa vodom. Ako tečnost dospe u oči, potražite i dodatnu lekarsku pomoć. Tečnost iz akumulatora može prouzrokovati iritaciju ili opekotine.

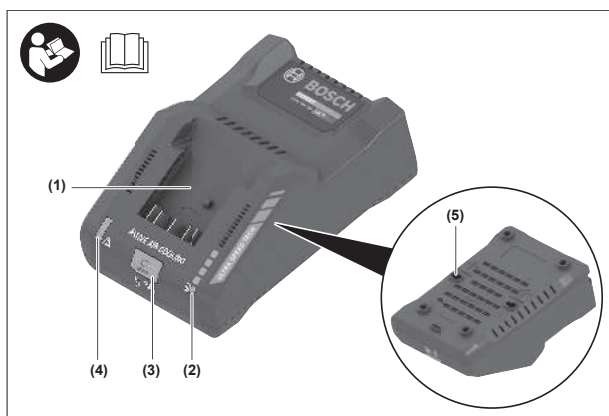
Opis proizvoda i rada

Predviđena upotreba

Punjač je predviđen za punjenje punjivih Bosch Li-Ion akumulatora ili akumulatora AMPShare partnera.

Prikazane komponente

Numerisanje komponenti sa slika odnosi se na prikaz punjača na slikama.



- (1) Utičnica za punjenje
- (2) Zeleni prikaz statusa napunjenosti
- (3) Taster MODE
- (4) Crveni prikaz kontrole temperature/greške
- (5) Zakačka za zid

Tehnički podaci

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

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

A) Zavisno od temperature i tipa akumulatora

B) Težina bez voda za priključak na mrežu i bez mrežnog utikača

Vrednosti mogu da se razlikuju u zavisnosti od proizvoda i zavise od uslova upotrebe i uslova iz okoline. Dodatne informacije možete pogledati na adresi www.bosch-professional.com/wac.

Proces punjenja

► **Obratite pažnju na napon mreže!** Napon strujnog izvora mora biti usaglašen sa podacima na tipskoj pločici punjača.

i Uverite se da se u utičnici za punjenje **(1)** i na kontaktima akumulatora ne nalazi veća prljavština.

Uverite se da je akumulator potpuno ubačen.

Postupak punjenja počinje čim mrežni utikač punjača umetnete u utičnicu, a akumulator ubacite u utičnicu za punjenje **(1)**.

i Postupak punjenja je moguć samo kada je temperatura akumulatora u dozvoljenom opsegu temperature tokom punjenja:

– **GBA 18V...**: 0 °C ... 45 °C

– **EXBA18V...**: –10 °C ... 55 °C

Zahvaljujući inteligentnom postupku punjenja, status napunjenosti akumulatora se automatski prepoznaje i punjenje se vrši optimalnom strujom punjenja koja zavisi od temperature i napona akumulatora, kao i izabranog režima punjenja.

Bitno skraćeno vreme rada posle punjenja pokazuje da je akumulator istrošen i da se mora zameniti.

Pri kontinuiranim odnosno ciklusima punjenja koji su bili više puta jedan za drugim bez prekida može se uređaj za punjenje zagrejati. Ovo je, međutim, bezopasno i ne ukazuje na tehnički defekt punjača.

Vreme punjenja

U sledećoj tabeli možete naći približno vreme u minutima za željeni nivo napunjenosti, u zavisnosti od tipa akumulatora i režima punjenja. Vremena punjenja se mogu razlikovati.

Dodatne informacije možete pogledati na adresi:

www.bosch-professional.com/wac.

Power Boost režim punjenja

Akumulator		
EXBA18V-40	~ 9	~ 30
EXBA18V-55	~ 11	~ 31
EXBA18V-80	~ 16	~ 39

Akumulator		
EXBA18V-150	~ 27	~ 60



odgovara statusu napunjenosti od ~ 50%



odgovara punom statusu napunjenosti

Standardni režim punjenja

Akumulator	
EXBA18V-40	~ 37
EXBA18V-55	~ 35
EXBA18V-80	~ 46
EXBA18V-150	~ 60



odgovara punom statusu napunjenosti

Postupak punjenja

Za punjenje akumulatora možete da birate neki od 3 različita režima punjenja. Pritisnite taster **MODE (3)** da biste se prebacivali između sledećih režima punjenja:

- Standardni režim punjenja
- Power Boost režim punjenja
- Režim punjenja Long Life

Standardni režim punjenja



Akumulator je prilikom isporuke potpuno napunjen. Ovaj režim punjenja je unapred podešen na punjaču. Taster **MODE (3)** ne svetli.

Standardni režim punjenja je kombinacija brzog vremena punjenja i potpune napunjenosti akumulatora.

Power Boost režim punjenja

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 režimu, akumulatori su potpuno napunjeni najvećom brzinom punjenja. Vreme punjenja sa Power Boost funkcijom možete naći u tabeli: (videti „Vreme punjenja“, Strana 3)



Taster **MODE (3)** svetli crveno tokom brzog punjenja.

Režim punjenja Long Life



Akumulator je prilikom isporuke potpuno napunjen. Tako se šteti akumulator, ali se i sporije puni. To značajno produžuje vek trajanja akumulatora.

Taster MODE (3) svetli zeleno tokom punjenja.

Značenje elemenata pokazivača

Zeleni prikaz statusa napunjenosti

Postupak punjenja se signalizuje **treperenjem** prikaza statusa napunjenosti (2).



0–20%



21–40%



41–60%



61–80%



81–99%



Skroz napunjen

Trajno svetlo crvenog prikaza kontrole temperature



Neprekidno svetlo na crvenom prikazu (4) označava da je temperatura akumulatora izvan dozvoljenog opsega temperature tokom punjenja (videti „Proces punjenja“, Strana 3).

Ukoliko je postignut dozvoljeni opseg temperature, počinje proces punjenja.

Trepćuće svetlo crvenog prikaza greške



Trepćuće svetlo crvenog prikaza (4) signalizuje da je neispravan akumulator ili punjač.

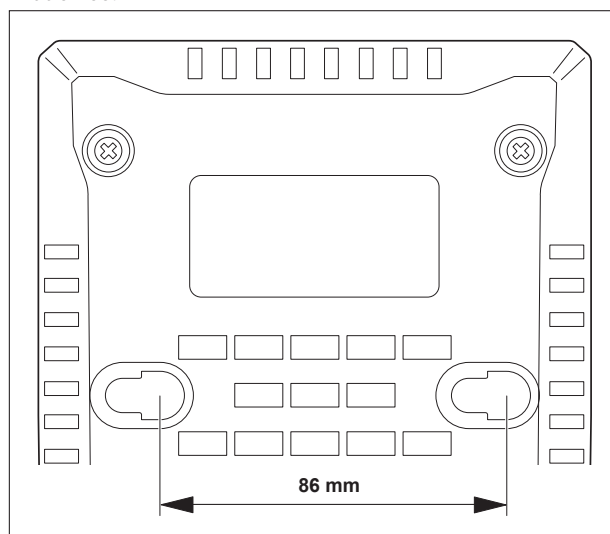
Hlađenje akumulatora (Active Air Cooling)

Upravljanje ventilatorom, koje je integrisano u punjač, kontroliše temperaturu postavljenog akumulatora. Ventilator se uključuje kada se temperatura akumulatora nalazi iznad otprilike 0 °C. Uključeni ventilator pri tome proizvodi zvukove ventilacije.

Ako ventilator ne radi, to znači da je neispravan ili da je temperatura akumulatora < 0 °C. Zbog toga vreme punjenja može da bude duže.

Montaža na zid

- Izvučite pre svih radova na punjaču mrežni utikač iz utičnice.



Punjač može da se koristi u stojećem položaju (rad na stolu) ili u visećem položaju na zidu.

Za pričvršćivanje na zidu: Napravite 2 otvora u razmaku od **86 mm**. Za pričvršćivanje koristite zavrtanje sa okruglom glavom prečnika od 5 mm do maks. 6,5 mm.

Otklanjanje grešaka

Akumulator se ne puni



Akumulator se ne puni i crveni prikaz kontrole temperature/greške (4) treperi crveno.

Uzrok: Punjač je ustanovio internu grešku

Rešenje: Uverite se da su svi akumulatori potpuno utaknuti. Izvucite mrežni utikač i ponovo ga umetnite. Ako se greška ponovo pojavi, prekontrolišite punjač u ovlašćenom korisničkom servisu za **Bosch** električne alate.

Uzrok: Akumulator nije pravilno postavljen

Rešenje: Postavite akumulator pravilno u punjač.

Uzrok: Kontakti akumulatora i kontakti za punjenje su prljavi

Rešenje: Izvucite utikač i očistite kontakte akumulatora i kontakte za punjenja (suvo).

Uzrok: Neispravan akumulator

Rešenje: Zamenite akumulator.



Akumulator se ne puni, a prikaz (4) svetli crveno.

Uzrok: Temperatura akumulatora je van dozvoljenog opsega temperature tokom punjenja

Rešenje: Sačekajte da temperatura akumulatora ponovo bude u dozvoljenom opsegu temperature tokom punjenja (videti „Proces punjenja“, Strana 3).

Indikatori ne svetle

Nijedan prikaz ne svetli, akumulator se ne puni.

Uzrok: Utičnica, mrežni kabl ili punjač neispravan

Rešenje: Uverite se da je punjač priključen na odgovarajuću i funkcionalnu utičnicu. Ako se greška ponovo pojavi, po potrebi prekontrolišite punjač u ovlašćenom korisničkom servisu.

Uzrok: Mrežni utikač punjača nije (ispravno) utaknut

Rešenje: Utaknite mrežni utikač (potpuno) u utičnicu.

Česta pitanja



Koji punjač je pogodan za moj akumulator?

Svi akumulatori od 18 V su kompatibilni sa svim Bosch Professional punjačima od 18 V i svim punjačima od 18 V AMPShare partnera.

Profesionalnim korisnicima preporučujemo da kombinuju punjač sa akumulatorom sa vremenom punjenja manjim od 1 sata.

Sva vremena punjenja mogu da se pronadu u uputstvu za upotrebu na mreži ili na veb-lokaciji Bosch Professional.



Koja su vremena punjenja mog akumulatora?

Vreme punjenja akumulatora zavisi od 2 faktora:

- Tip akumulatora i kapacitet akumulatora
- Brzina punjenja

Sva vremena punjenja mogu da se pronadu u uputstvu za upotrebu na mreži (videti „Vreme punjenja“, Strana 3) ili na veb-lokaciji Bosch Professional.



Da li mogu da podesim brzinu punjenja punjača?

Uz **EXAL18V-160** možete da prilagodite brzinu punjenja svojim potrebama. **EXAL18V-160** ima 3 režima punjenja koji su optimizovani za raznovrsnu upotrebu akumulatora:

- Standardni režim punjenja sa standardnom brzinom punjenja: Standardni režim punjenja je fabrički podešen (videti „Standardni režim punjenja“, Strana 3).
- Power Boost režim punjenja: Power Boost režim punjenja može da se aktivira pomoću tastera MODE na punjaču. Režim Power Boost.
- Režim punjenja Long Life: Trajanje režima punjenja Long Life može da se aktivira pomoću tastera MODE na punjaču (videti „Režim punjenja Long Life“, Strana 4). Pretežno punjenje u štedljivom režimu dovodi do dužeg veka trajanja akumulatora.



Da li akumulatori mogu da ostanu u punjaču nakon što se potpuno napune?

Čim se akumulator potpuno napuni i punjač to ukaže, proces punjenja je završen.

Akumulator može da ostane u punjaču, ali se ne preporučuje ostavljanje akumulatora u punjaču duže vreme.



Na kojim temperaturama treba akumulator da se puni, koristi i skladišti?

- Dozvoljena temperatura okoline tokom rada i skladištenja je -20 °C do 50 °C.
- Preporučena temperatura okruženja tokom punjenja je 0 °C do 35 °C.
- Za optimalan vek trajanja akumulatora, preporučuje se skladištenje akumulatora na temperaturi od 0 °C do 20 °C.



Koje punjenje akumulatora je optimalno za duži period skladištenja?

Za duži period skladištenja, idealan je status napunjenosti 30–50%.



Da li su Bosch Professional akumulatori kompatibilni sa drugim brendovima?

Svi Bosch Professional akumulatori od 18 V su kompatibilni sa sledećim proizvodima:

- svi proizvodi Bosch Professional sistema od 18 V
- svi proizvodi AMPShare partnera



Koji nivo napunjenosti akumulatora je optimalno za duži vek trajanja?

Za duži vek trajanja, idealan je nivo napunjenosti 80%.

Služba za korisnike i saveti za upotrebu



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

Srpski

Tel.: +381 11 644 8546

Molimo da kod svih pitanja i naručivanja rezervnih delova neizostavno navedete broj artikla sa 10 broječnih mesta prema tipskoj pločici proizvoda.

Uklanjanje đubreta

Uređaji za punjenje, pribor i pakovanja treba odvoziti regeneraciji koja odgovara zaštiti čovekove okoline.



Ne bacajte punjače u kućni otpad!

Samo za EU-zemlje:

Električni i elektronski uređaji koji više ne mogu da se koriste moraju da se skupljaju zasebno i odlože u otpad u skladu sa ekološkim propisima. Koristite naznačene sisteme za sakupljanje. Zbog mogućih opasnih materija koji se nalaze u uređaju, nepravilno odlaganje u otpad može da bude opasno za okolinu i zdravlje.

Garancija proizvođača



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

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Održavanje i čišćenje

Ako je neophodna zamena priključnog voda, onda to mora da izvede **Bosch** ili ovlašćena servisna služba za **Bosch** električne alate, kako biste izbegli ugrožavanje bezbednosti.

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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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