

Universal USB / DC / solar LiPo charger bq24074

Adafruit · MPN 4755 · category: charger

Canonical record: <https://partsgraph.ai/catalog/parts/adafruit-bq24074-solar>

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ELECTRICAL

Input voltage range: **5–10 V** · vendor page

Input overvoltage rating: **28 V** · datasheet p.1

OVP threshold (bq24074): **10.5 V** · datasheet p.6

Battery regulation voltage: **4.2 V** · datasheet p.6

System output regulation (VOUT): **4.4 V** · datasheet p.6

Default max charge rate: **1000 mA** · vendor page

Solar panel input: **6–10 V** · vendor page

INTERFACE

USB connector: **USB Type C** · vendor page

Battery connector: **JST PH** · vendor page

COMPLIANCE

RoHS: **RoHS compatible** · datasheet p.6

Lead-free soldering: **Yes** · datasheet p.6

GENERAL

Charger IC: **bq24074** · datasheet p.1

Max charge current: **1.5 A** · datasheet p.1

INDICATIVE PRICES

Adafruit: \$14.95 USD · as of 2026-08-22 · <https://www.adafruit.com/product/4755>

Prices are indicative and dated, captured only from vendors' machine-stated markup. Availability is never claimed.

SOURCES — THE AUTHORITATIVE DOCUMENTS

TI bq24074 datasheet: <https://www.ti.com/lit/ds/symlink/bq24074.pdf>

sha-256 05585ca0112a74b0ad1ef22f3cc30e92c1cdce50430d32605a00f4c3b57b7435

Adafruit product page: <https://www.adafruit.com/product/4755>

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