

Battery Charger Li-Ion/Li-Pol Packs 900mA 4.2V 8-Pin DFN EP T/R

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	QFN-8
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL6294IRZ-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ISL6294 is a cost-effective, fully integrated high input voltage single-cell Li-ion battery charger. The charger uses a CC/CV charge profile required by Li-ion batteries. The charger accepts an input voltage up to 28V but is disabled when the input voltage exceeds the OVP threshold, typically 6.8V, to prevent excessive power dissipation. The 28V rating eliminates the overvoltage protection circuit required in a low input voltage charger. The charge current and the end-of-charge (EOC) current are programmable with external resistors. When the battery voltage is lower than typically 2.55V, the charger preconditions the battery with typically 20% of the programmed charge current. When the charge current reduces to the programmable EOC current level during the CV charge phase, an EOC indication is provided by the CHG pin, which is an open-drain output. An internal thermal foldback function protects the charger from any thermal failure. Two indication pins (PPR and CHG) allow simple interface to a microprocessor or LEDs. When no adapter is attached or when disabled, the charger draws less than 1µA leakage current from the battery.

## Features

Complete Charger for Single-Cell Li-ion/Polymer Batteries

Integrated Pass Element and Current Sensor

No External Blocking Diode Required

Low Component Count and Cost

1% Voltage Accuracy

Programmable Charge Current

Programmable End-of-Charge Current

Charge Current Thermal Foldback for Thermal Protection

Trickle Charge for Fully Discharged Batteries

28V Maximum Voltage for the Power Input

Power Presence and Charge Indications

Less Than 1 $\mu$ A Leakage Current off the Battery When No Input Power Attached or Charger Disabled

Ambient Temperature Range: -40 °C to +85 °C

8 Ld 2mm x 3mm DFN and 8 Ld SOIC Packages

Pb-Free Plus Anneal Available (RoHS Compliant)



### Related Products



#### [ISL6262ACRZ](#)

Renesas Technology Corp  
QFN-48



#### [ISL21080CIH315Z-TK](#)

Renesas Technology Corp  
SOT-23-3



#### [ISL6506BCBZ](#)

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SOP-8



#### [ISL6377HRZ-T](#)

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8pin-DFN