

> Evaluation Boards (/cms/en/product/evaluation-boards/)

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Strengthening the link between the real and the digital world (/cms/en/about-infineon/company/cypressacquisition/)

REF ICC80QSG 84W2 BPA

Overview

84 W AC-DC reference design for e-bike battery charger

The REF_ICC80QSG_BPA2_84W is an 84 W flyback-based reference design tailor-made for battery chargers for because of the contraction of the contrac is based on the quasi-resonant flyback controller

ICC80QSG (/cms/en/product/power/ac-dc-power-conversion/ac-dc-pwm-pfc-controller/battery-chargingic/icc80qsg/)

and the renowned

700 V CoolMOS™ P7 (/cms/en/product/power/mosfet/n-channel/500v-950v/coolmos-p7/700v-coolmos-p7/)

technology in the small footprint and wave solderable

SOT-223 package (/cins/en/po/rods/et/powler/mosfet/enuetiam Bel/500/vr95/0v/powlm/powlet/bpackage/s/sot-223/).

> REF_ICC80QSG_84W2_BPA

Summary of Features

- Secondary-side regulation with adjustable CC output set-point from 0.2 A to 2 A
- Supports wide output load range from 6 V to 42 V
- Full-power efficiency more than 91 percent at 230
 V_{RMS AC} input
- Four-point average efficiency more than 91 percent at 42 V output load
- System standby power less than 200 mW at 230
 V_{RMS_AC} input

Benefits

- High efficiency and low EMI with quasi-resonant (QR) valley switching
- Cost-effective flyback MOSFET with high performance, using CoolMOS™ P7 in SOT-223 package
- Configurable hysteresis of brown-in and brown-out
- Adaptive brown-out level triggering based on bus voltage ripple, to better protect primary components from overheating and saturation with higher brown-out level at higher power transfer
- Comprehensive set of protections: internal overtemperature protection (OTP), output overvoltage protection (OVP), VCC OVP, overcurrent protection (OCP), brown-in and brown-out protection, input OVP and open-loop protection

Potential Applications

- Battery chargers (/cms/batterychargers)
- Light electric vehicles (/cms/en/applications/consumer/light-vehicles/light-electric-vehicles/#lowpower) subjects

List of components

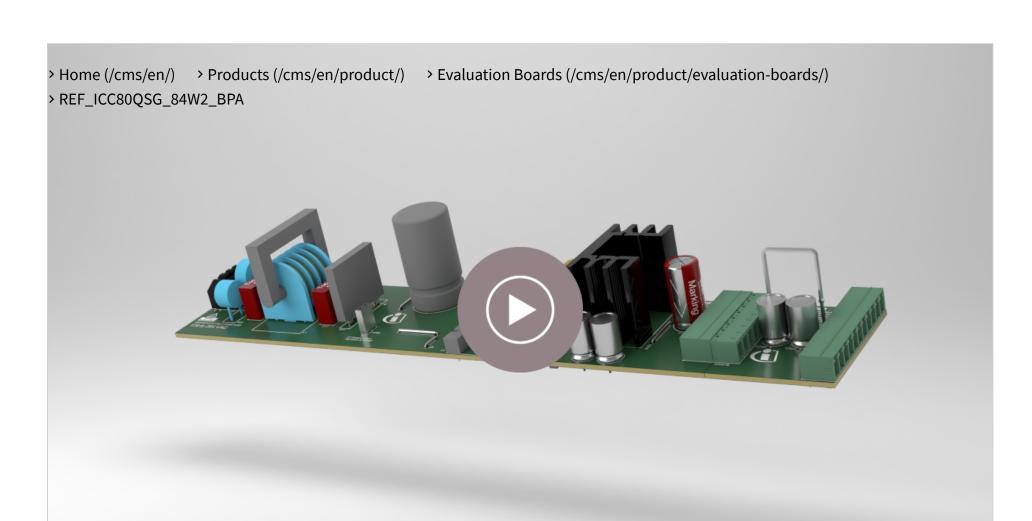
ICC80QSG (/cms/en/product/power/ac-dc-power-conversion/ac-dc-pwm-pfc-controller/battery-charging-

- → Him/iec/800cs/gn/) > Products (/cms/en/product/) > Evaluation Boards (/cms/en/product/evaluation-boards/)
- > R**(fbfat(©08)/Q(5)Gr@iHVg2L(5)**PA
- IPN70R450P7S (/cms/en/product/power/mosfet/n-channel/500v-950v/ipn70r450p7s/) (700 V CoolMOS™ P7 superjunction MOSFET)

Interactive 3D board model

(/cms/media/pss-3dmodels/REF-ICC80QSG-BPA2-84W/)







(/cms/en/product/promopages/productregistration/? intc=PSS.P.B.2021)





Parametrics

Parametrics	REF_ICC80QSG_84W2_BPA
Frequency max	60 kHz
I _{out} min max	1 A 0.2 A 2 A
l _{out}	DC
Input Type	AC
Input Voltage min max	230 V 176 V 264 V
Output Voltage min max	24 V 6 V 42 V Start Chatbot
P _{out} max	84 W

Parametrics > Home (/cms/en/) > F	REF_ICC80QSG_84W2_BPA Products (/cms/en/product/evaluation-boards/)
> REF_ICC80QSG_84W2_BPA Product • Secondary side regulation with adjustable CC output set-point from 0.2 to 2 A • Supports wide	
Description	output load range from 6 to 42 V • Full-power efficiency more than 91 percent at 230 VRMS AC input
Target Application	Charging
Topology	Flyback
V _{out}	DC

Documents

> Login (/sec/login?ret=https%3A%2F%2Fwww.infineon.com%2Fcms%2Fen%2Fproduct%2Fevaluation-boards%2Fref_icc80qsg_84w2_bpa%2F%23!documents)
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Data Sheets

