

FEATURES

- ◆ Meet EPS Level 6
- ◆ Built-in 650V Power MOSFET
- ◆ Proprietary **super-QR/PSR™** (Quasi-Resonant & Primary Side Regulation) Control for High Efficiency and Low EMI
- ◆ Proprietary Cable Drop Compensation
- ◆ Less than 70mW Standby Power
- ◆ $\pm 5\%$ CC and CV Precision
- ◆ Multi-Mode Control
- ◆ Cycle-by-Cycle Current Limiting
- ◆ Leading Edge Blanking (LEB)
- ◆ Soft Start
- ◆ Output Over Voltage Protection
- ◆ VDD UVLO, OVP & Clamp

APPLICATIONS

- ◆ Battery chargers for cellular phones, cordless phones, PDA, digital cameras, etc
- ◆ Replaces linear transformer and RCC SMPS
- ◆ AC/DC LED lighting

GENERAL DESCRIPTION

SF6772S is a high performance, highly integrated QR (Quasi Resonant Mode) and Primary Side Regulation (PSR) power switch for offline small power converter applications.

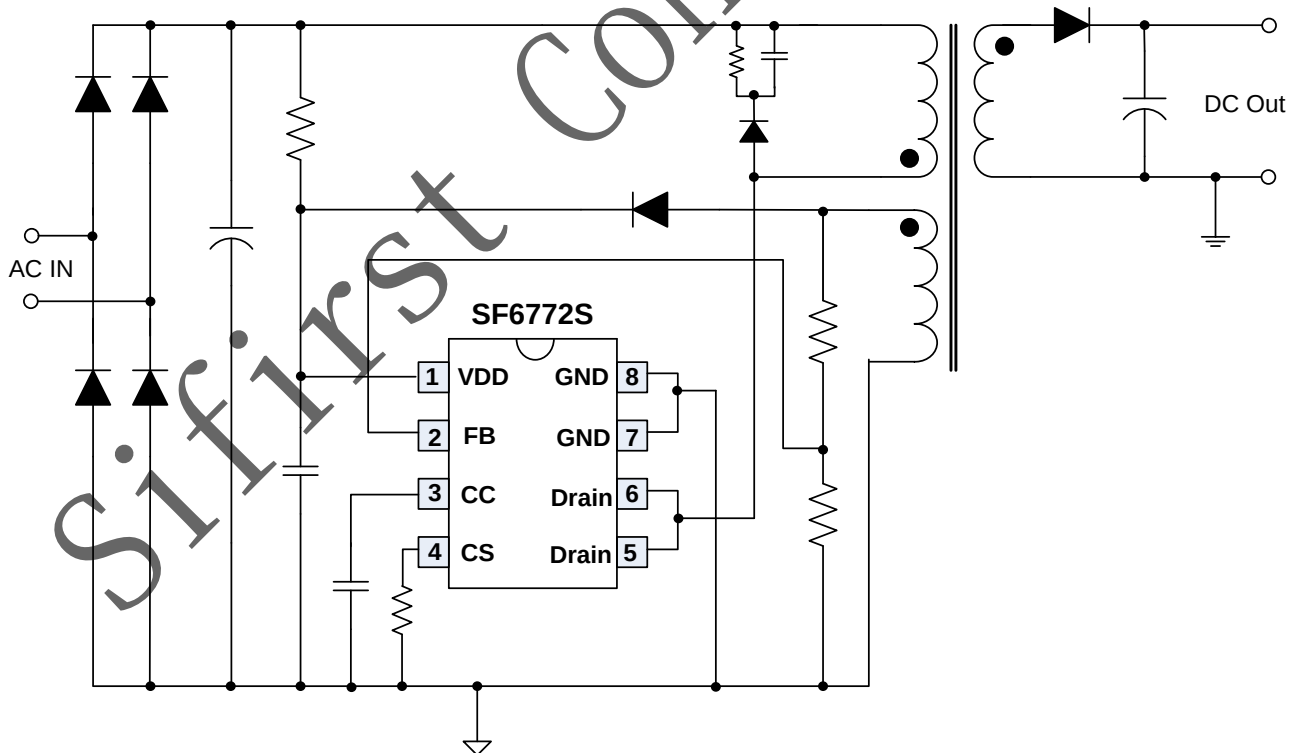
SF6772S has proprietary **super-QR/PSR™** control for high efficiency and low EMI, which can ensure system to meet EPS Level 6 energy standard. The IC also has built-in cable drop compensation function to achieve excellent CV performance.

SF6772S uses **Multi Mode Control** to improve efficiency and reliability and to decrease audio noise energy @ light loadings.

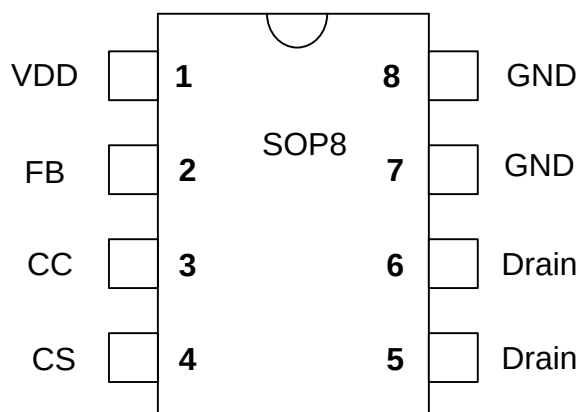
SF6772S integrates functions and protections of FB Short Protection, Under Voltage Lockout (UVLO), VDD Over Voltage Protection (VDD OVP), Output Over Voltage Protection (Output OVP), Soft Start, Cycle-by-cycle Current Limiting (OCP), Pin Floating Protection, VDD Clamping.

SF6772S is available in SOP8 package.

TYPICAL APPLICATION



Pin Configuration



Ordering Information

Part Number	Top Mark	Package	Tape & Reel
SF6772SSG	SF6772SSG	SOP8	Green
SF6772SSGT	SF6772SSG	SOP8	Green

Output Power Table⁽¹⁾

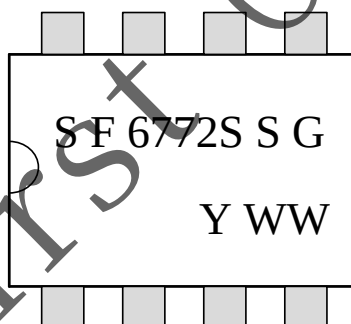
Part Number	230VAC $\pm 15\%$ ⁽²⁾	85-265VAC
	Adapter ⁽³⁾	Adapter ⁽³⁾
SF6772S	7.5W	5.5W

Note 1. The Max. output power is limited by junction temperature

Note 2. 230VAC or 100/115VAC with doublers

Note 3. Typical continuous power in a non-ventilated enclosed adapter with sufficient drain pattern as a heat sink at 50°C ambient.

Marking Information



YWW: Year&Week code

Pin Description

Pin Num	Pin Name	I/O	Description
1	VDD	P	IC power supply pin.
2	FB	I	System feedback pin. This control input regulates both the output voltage in CV mode and output current in CC mode based on the flyback voltage of the auxiliary winding.
3	CC	O	Connect a capacitor between this pin and GND for CC regulation.
4	CS	I	Current sense pin.
5-6	Drain	P	High voltage power MOSFET drain connection.
7-8	GND	P	Ground