

## FEATURES

- ◆ **Meet EPS Level 6**
- ◆ **Built-in 650V Power MOSFET**
- ◆ **Proprietary *super-QR/PSR*<sup>TM</sup> (Quasi-Resonant & Primary Side Regulation) Control for High Efficiency and Low EMI**
- ◆ **Proprietary Cable Drop Compensation**
- ◆ **Less than 70mW Standby Power**
- ◆ **±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.

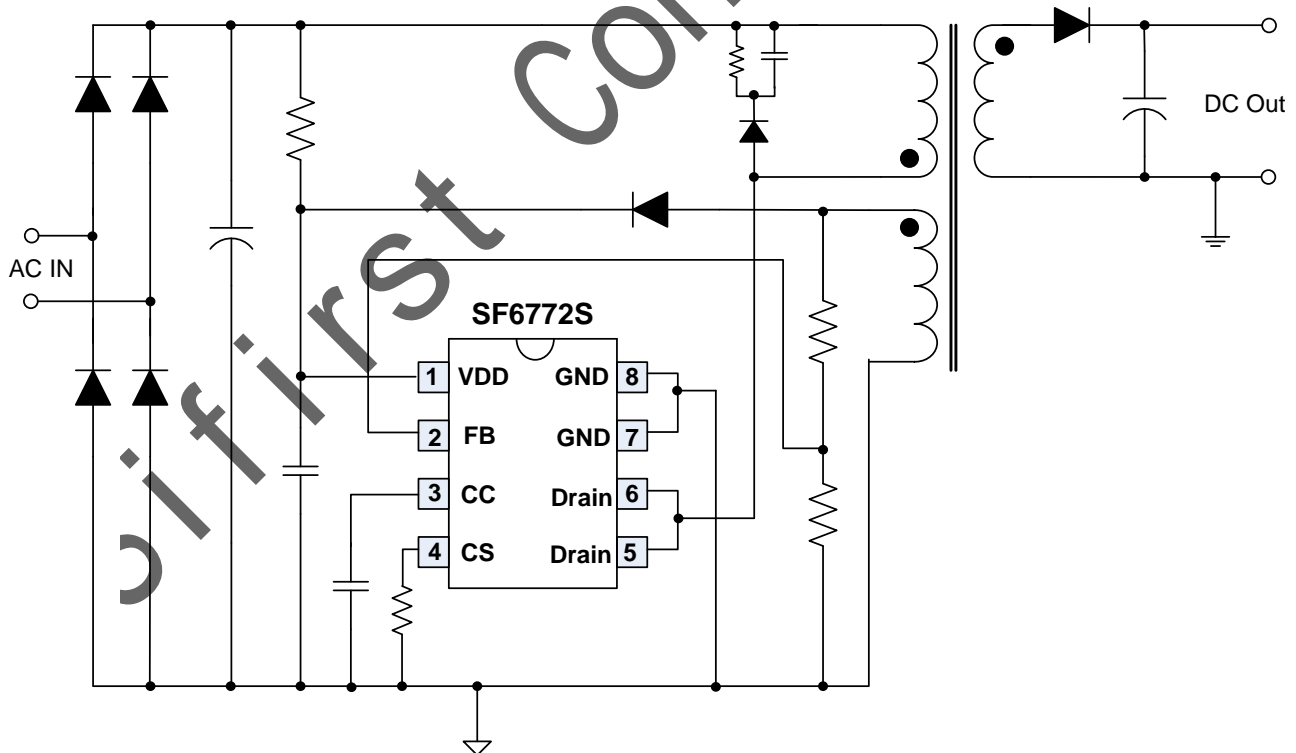
SF6772S has proprietary *super-QR/PSR*<sup>TM</sup> control for high efficiency and low EMI, which can ensure system to meet EPS Level 6 energy standard. The IC also has built-in cable drop compensation function to achieve excellent CV performance.

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

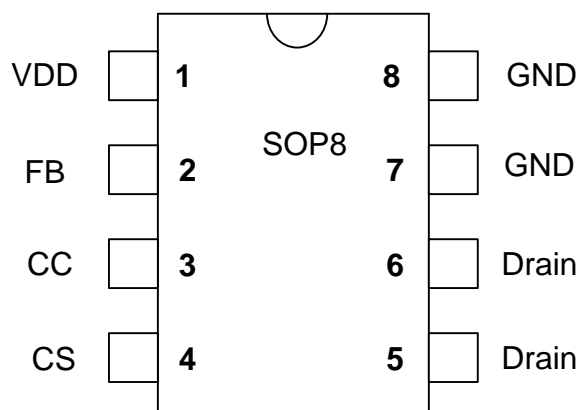
SF6772S integrates functions and protections of FB Short Protection, Under Voltage Lockout (UVLO), VDD Over Voltage Protection (VDD OVP), Output Over Voltage Protection (Output OVP), Soft Start, Cycle-by-cycle Current Limiting (OCP), Pin Floating Protection, VDD Clamping.

SF6772S is available in SOP8 package.

## TYPICAL APPLICATION



## Pin Configuration



### Ordering Information

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

### Output Power Table<sup>(1)</sup>

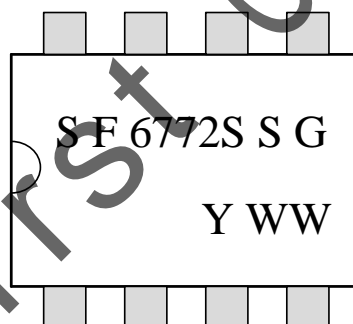
Part Number	230VAC $\pm 15\%$ <sup>(2)</sup>	85-265VAC
	Adapter <sup>(3)</sup>	Adapter <sup>(3)</sup>
SF6772S	7.5W	5.5W

**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