

HF500-40 (700V/1Ω)

**Fixed-Frequency Flyback Regulator with Multi-Mode Control and
Over-Power Line Compensation**

February 2020

Released – Datasheet 1.0



HF500-40 – Target Applications

- Set-Top Boxes
- Adapters
- Power Supplies for Home Appliances
- Standby and Auxiliary Power



Home Appliances



Set-Top Boxes



Standby Power



Adapters

Why Use This Part?

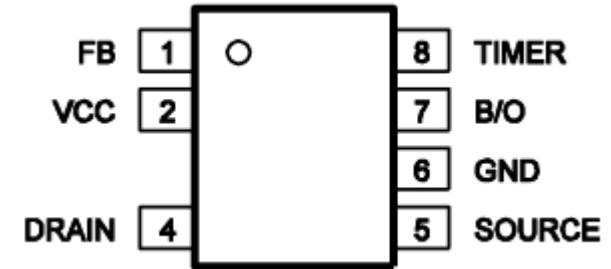
It's Simple and Easy!

- Fully featured controller in one chip for a low-power, offline, flyback, switch-mode power supply
- Multi-mode control during different load conditions
- Over-power line compensation and full suite of protection features

HF500-40 – Fully Featured Flyback Regulator

FEATURES

- 700V/1Ω Integrated MOSFET
- Current Mode with Built-In Slope Compensation, Burst Mode for Low Standby Power
- Frequency Foldback at Light Load, Frequency Jittering to Reduce EMI Signature
- Over-Power Compensation
- Internal High-Voltage Current Source
- Configurable Soft Start (SS)
- Full Protection Features: ULVO, OVP, OLP, OTP, SCP, and Latch-Off Protection



Available in a PDIP8-7B Package

P _{OUT} (W)	Maximum Output Power ⁽¹⁾			
	230V _{AC} ± 15%		85V _{AC} ~ 265V _{AC}	
	Adapter ⁽²⁾	Open Frame ⁽³⁾	Adapter ⁽²⁾	Open Frame ⁽³⁾
30	45	25	35	

NOTES:

- 1) The junction temperature can limit the maximum output power.
- 2) Maximum continuous power in a non-ventilated enclosed adapter measured at 50°C ambient temperature.
- 3) Maximum continuous power in an open-frame design at 50°C ambient temperature.

HF500-40 – Typical Application

