EVKT-1200 Product Brief

HR1200 Evaluation Kit

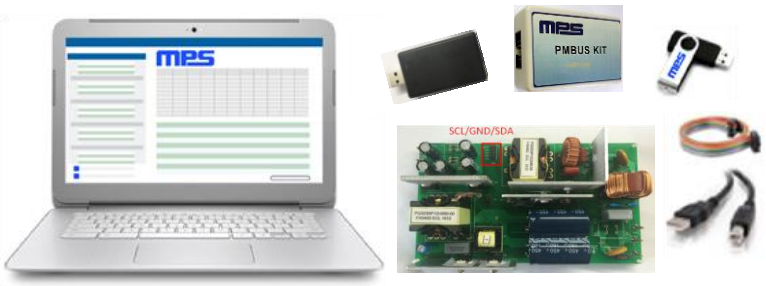
High-Performance Digital PFC + LLC Combo Controller

The HR1200 is a high-performance combo controller that integrates an advanced digital PFC controller and a half-bridge LLC resonant controller. It requires quite low input power at no load or ultra-light load.

The PFC part employs a patented average current control scheme and can switch automatically between continuous conduction mode (CCM) and discontinuous conduction mode (DCM) according to different input and load conditions which brings high efficiency and high power factor (PF) at light load.

The LLC part implements an adaptive dead-time adjustment (ADTA) function to guarantee zero-voltage switching (ZVS) at whole load range and capacitive mode protection function.

Besides, a high-voltage (HV) current source is integrated for start-up and X-cap discharging which is helpful to reduce power consumption at no load.



*Laptop not included

Feature	Specification
Operating Input Voltage	90Vac to 265Vac
Operating Output Voltage	12V
Operating Output Current	20A
Operating Systems Supported	Windows XP, 7, and later
System Requirements	Minimum 21.7 MB free
GUI Software	MPS Programmable Power GUI v3.2
EVB Size (L x W)	17.4 cm x 10.5 cm

Kit Contents

- Evaluation Board
  EVKT-1200-TSSOP includes EVHR1200-M-02A
  EVKT-1200-SOIC includes EVHR1200-S-01C
- Dongle with Accessories (EVHR1200 PMBUS Kit)
  - USB to I²C Programming Dongle
  - USB Cable
  - Ribbon Cable
- USB Isolator (T-USB Isolation Block-00A)
- USB flash drive that stores the GUI installation file and supplemental documents

Quick Start (Refer to user guide for more details.)

1. Install the dongle driver and GUI software.
2. Use the provided USB cable to connect the computer to I²C dongle with the USB isolator.
3. Use the provided ribbon cable to connect the EVB to I²C dongle.
4. If in On-line Mode, supply AC input. If in Off-line Mode, proceed to next step.
5. Open the GUI software and program as needed.

**Kit offers rapid application assessment and requires minimal external components*