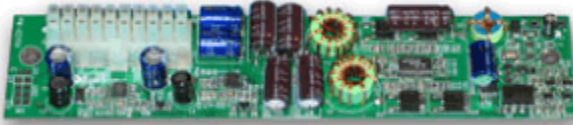


**PW-60**



60 Watt, 12 DC-DC  
ATX Converter



Cool Power for Tight Spaces

Designed for VIA mini-ITX

PW-60-MINI-ITX  
12VDC-DC Converter

## Quick Installation Guide

Version 1.1  
P/N 6657400

## Introduction

The PW-60-Mini-ITX is a small yet powerful DC-DC converter used in low power PCs or laptops.

The PW-60 is the only cable-less mini-ITX power supply solution for the VIA platform. Compatible with an entire range of mini-ITX motherboards such as VIA EPIA-V, EPIA-5000, EPIA-800, Lucky Star Mini-ITX, FIC C3 933 mini-ITX, the PW-60 provides cool, silent power for your small mini-ITX motherboard.

Additionally, PW-60 dc-dc converter can power up your EPIA-M or other VIA C3 boards by using a small ATX adaptor cable.

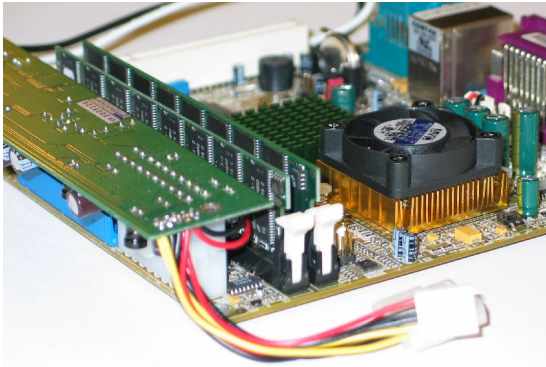
## Quick installation

The PW-60 has been specifically designed for the Mini-ITX form factor, thus eliminating the need for ATX power cables or ATX power extenders.

In case you are using a non mini-itx board or a mini-ITX board that doesn't conform to the form factor that the PW-60 was designed for, please use a regular female-male ATX power supply extension cable.

**Important note:** Due to small tight requirements, please ensure that you first connect your IDE cables to the motherboard.

For mini-ITX systems such as EPIA-800/5000 or EPIA-V simply plug the DC-DC converter board into the mother board as shown in fig 1.1.



*Fig 1.1, DC-DC daughterboard installation*

After the DC-DC power board was 'snapped in', hook the HDD power or floppy power to your floppy/hard drive (if any). An additional 5 volt connector is provided for various power needs. If more HDD or floppy connectors are needed, you need to use a HDD/floppy splitter cable.

Connect the 12 VDC source to the DC-to-DC connector. If power adaptor is not provided, please note that the WHITE cable is POSITIVE (+)

### **Typical configurations**

The PC configuration should not exceed 2 regular sized hard drives, a floppy disk or CDROM and up to 1 Gb of RAM. When using 2 regular sized hard drives please make sure that the drives are operating at 5400 rpm. Alternatively, only one 7200 RM drive or higher can be used.

**Total output power (combined): 60W**  
**PW-60-MINI-ITX**

NOMINAL VOLTAGE (DC)	LOAD CURRENT		REGULATION (%)
	MIN.	MAX.	
$V_{(in)} = 12$ Volt	0.1 A	6 A	+/- 15
+3.3 Volt	0 A	4.5 A	+/- 5
+5 Volt	0 A	5 A	+/- 5
-5 Volt	0 A	0.2 A	+/- 5
+12 Volt	0 A	1.5 A	+/- 5
-12 Volt	0 A	0.1 A	+/- 5
+5 Vsb	0 A	1.5 A	+/- 5

### Overload protection

An over load protection will be effected when either of the loadings: +5V & +3.3V exceeds +120% to 160%. The power supply won't be automatically recovered after the overload being removed.

### Turn-on Delay

After turning on, at least 20 mS will be needed for the rise of +5V output voltage (measured from 10% point to 95% point on the waveform) to reach its peak.

### Remote ON/OFF control

Logic level is LOW - Output voltage is enabled.

Logic level is HIGH or floating - Output voltage is disabled.

**Operating environment**

Temperature 0 to 40 degree centigrade

Relative Humidity 10 to 90 percent, non-condensing

**Shipping and storage**

Temperature -40 to +70 degree centigrade

Relative Humidity 5 to 95 percent, non-condensing