

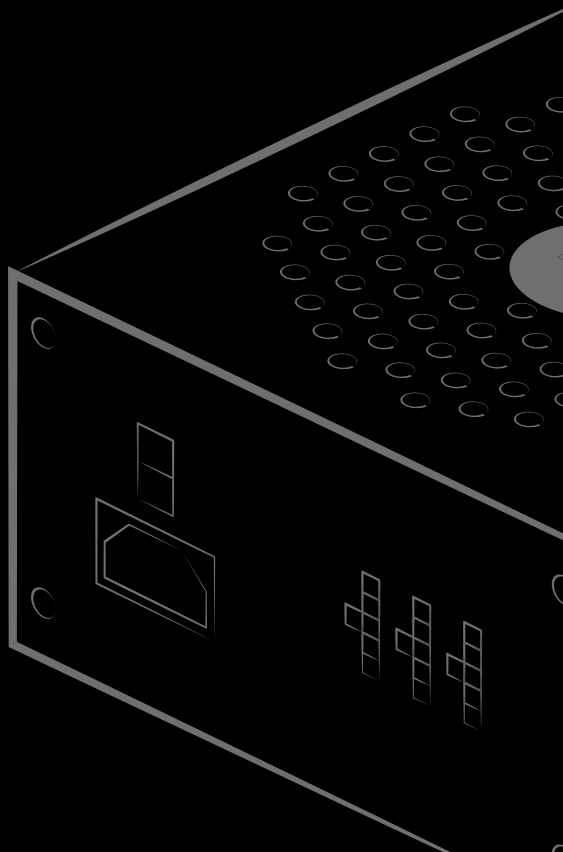
LDLC

USER'S GUIDE

LDLC GT PLATINUM

POWER SUPPLY UNIT ATX12V FORMAT

LDLC GT-550P / LDLC GT-650P / LDLC GT-750P / LDLC GT-850P



Preface

Every effort has been made to ensure that the information in this document is accurate. However, the manufacturer and the distributor of this product assume no responsibility for any error, omission in this document, or use of the information contain herein.

Please preserve this manual for the life of the equipment.

Congratulations on your purchase!



INFORMATION ABOUT RECYCLING



This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE).

This means that this product must be handled pursuant to European Directive 2002/96/EC in order to be recycled or dismantled to minimize its impact on the environment.

For further information, please contact your local or regional authorities.

Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances.

Carton contents

- LDLC GT PLATINUM series Power Supply Unit
- Modular cable pack
- User Guide
- AC power cord
- PSU bag

Technical features

- A high performance for energy savings. 80 PLUS Platinum Certification: High energetic efficiency. The 80 PLUS Platinum Certification guarantees greater than 90%, 92% and 89% efficiency at 20%, 50% and 100% operating loads, respectively.

80 PLUS Test Type	115V internal non-redundant				230V internal redundant			
Power Supply use rate	10%	20%	50%	100%	10%	20%	50%	100%
80 PLUS PLATINUM	-	90%	92%	89%	-	90%	92%	89%

- Japanese capacitors of 105°C nominal provides a quality reliability/performances.
- A single +12V monorail for a better current distribution.
- Active PCF. A correction of the active power factor >0.90 at full load that provides a clean and reliable current.
- An advanced cable set covering all kind of PC.
- A DC fan of 120mm provides an excellent air flow with a very low noise level. 12V DC, 62CFM/min, <30.83dB(A), This fan is only for power supply internal cooling purpose, not for system cooling.
- Hybrid mode:
 - The Normal Fan Control setting (button pushed) enables the fan to rotate continuously in Silent Mode and Cooling Mode, depending on the system load.
 - The Hybrid Silent Fan Control setting (button not pushed) enables the power supply to run in Fanless Mode up to 20 % (± 5 %) of the maximum rated load at 25 degrees. When the load further increases, the fan control will keep regulating perfect cooling through the Silent Mode or Cooling Modes.

- Ample +12V Output: Enhanced +12V current output capability increases utilisation possibilities by ensuring that there is adequate power to support all the power-hungry system components.
- Ultra-Ventilation [Honeycomb Structure]: Honeycomb-shaped ventilation holes optimize airflow for improved cooling and reduced noise.
- Fully Modular Cabling: Easy to install and maintain and provides maximum flexibility.
- System protection: OPP (overload protection), OVP (power surge protection), SCP (short circuits protection), OCP (over current protection) OTP (over temperature protection).
- MTBF (medium time between failures) > 100,000 hours at 25°C, excluding DC fan
- Dimension (WxLxH): 140 x 150 x 86mm +/-1mm

Model

	LDLC GT-550P		LDLC GT-650P	
AC input				
Voltage input	100-240 VAC		100-240 VAC	
Intensity input	8-4 A		9-4.5 A	
Frequency	50-60 Hz		50-60 Hz	
Voltage output	Max. Intensity	Max. Power	Max. Intensity	Max. Power
+3.3 V	20 A	100 W	20 A	100 W
+5 V	20 A		20 A	
+12 V	45 A	540 W	54 A	648 W
-12 V	0.3 A	3.6 W	0.3 A	3.6 W
+5 VSB	3 A	15 W	3 A	15 W
Total Power	550 W		650 W	

	LDLC GT-750P		LDLC GT-850P	
AC input				
Voltage input	100-240 VAC		100-240 VAC	
Intensity input	10-5 A		12-6 A	
Frequency	50-60 Hz		50-60 Hz	
Voltage output	Max. Intensity	Max. Power	Max. Intensity	Max. Power
+3.3 V	20 A	100 W	20 A	100 W
+5 V	20 A		20 A	
+12 V	62 A	744 W	70 A	840 W
-12 V	0.3 A	3.6 W	0.3 A	3.6 W
+5 VSB	3 A	15 W	3 A	15 W
Total Power	750 W		850 W	

Introduction to the power connectors



Model	Connector of the principal power supply (20+4 pins)	ATX 12V (4+4 pins)	PCI-E (6+2 pins)	SATA (5 pins)	Device + FDD (4 pins)
LDLC GT-550P	1	1	2	6	1 x (3 HDD + FDD)
	610 mm	650 mm	675 + 75 mm	1 x (450 + 120 mm), 1x (450 + 120 + 120 + 120 mm)	450 + 120 + 120 + 101 mm
LDLC GT-650P	1	1	4	8	1 x (3 HDD + FDD)
	610 mm	650 mm	2 x (675 + 75 mm)	2 x (450 + 120 + 120 + 120 mm)	450 + 120 + 120 + 101 mm
LDLC GT-750P	1	2	4	8	1 x (3 HDD + FDD)
	610 mm	2 x 650 mm	2 x (675 + 75 mm)	2 x (450 + 120 + 120 + 120 mm)	450 + 120 + 120 + 101 mm
LDLC GT-850P	1	2	6	10	1 x (2 HDD, 3 HDD + FDD)
	610 mm	2 x 650 mm	3 x (675 + 75 mm)	1 x (450 + 120 mm), 2 x (450 + 120 + 120 + 120 mm)	1 x (350 + 120 mm), 1 x (450 + 120 + 120 + 101 mm)

1. Installation

Before installation, please read the entire manual.

Step A : Construction of a whole new system

(If you replace your current power supply unit, please go to step B).

1. Please make sure that the LDLC PSU is not connected to a power cord.
2. Follow the directions in your case manual and install the LDLC power supply using the supplied screws. Do not over tighten the screws.
3. Connect the power connectors to your motherboard and peripheral devices. DO NOT force the connector into place; the connectors are keyed so they can only fit one way. Make sure that all cables and wires are properly connected.
 - Connect the main power supply connector to your motherboard 24/20 pins.
 - Connect the 4/8 pins + 12V power supply connector to the motherboard according to your needs.
 - Connect the 4 pins peripheral power supply connector to the devices.
 - SATA connectors are intended to ATA series interface devices.
 - Connect the floppy drive power adapter to the floppy drives according to your needs.
 - Connect the PCI-E +12V power connectors to the PCI-E graphic card(s). Please check your graphic card manual for further details if needed.
4. Close your computer case, connect the power plug to the power supply unit, then set the power supply unit « I/O » switch on position « I ».

Step B : Current power supply unit replacement

1. Disconnect your PC power cord from all AC sources. Make certain that the system is turned OFF. If applicable, set the power supply unit's AC power switch to "O" (OFF) position.
2. Open the PC case and, if applicable, refer to your PC manufacturer's User Manual.
3. Carefully disconnect all the power supply unit's DC wire harness connectors from the mainboard and all peripheral connectors.
4. Unscrew the mounting screws securing the power supply unit to the back panel of the PC case.
5. Carefully remove the power supply unit from the PC system.
6. Now refer to step A.

Congratulations! You just finished the installation of your LDLC supply power unit and your system is now ready!

2. Warnings

- There are high and harmful voltage inside the supply power unit. DO NOT open the power supply unit case cover. Warranty is declared void just as you remove the cover. The supply power unit cover must not be covered under any circumstance.
- Please keep the supply power unit away from moisture and operate it in an advised environment. (Functioning temperature: 0 to 50°C; relative humidity: up to 85%)
- Do not insert any object that may obstruct or restrict airflow neither inside nor in front of the ventilation area of the power supply unit.
- USE ONLY the LDLC modular cables provided with the power supply unit.
- The power supply unit is for integration into a computer system and not intended for external or outdoor usage.

3. Auto-repair

If the supply power unit do not function properly, please check the following elements before asking any return for repair:

1. Is the electric plug properly connected inside the electric socket and inside the supply power unit AC entry?
2. Ensure that the « I/O » switch on the supply power unit is on the « I » position.
3. Check that all power supply pins are properly connected on all devices.
4. Please switch off and on several times the power supply unit using the « I/O » switch with at least 5 seconds lasting off times before resetting the power supply unit.

Warranty Terms

1. Groupe LDLC Contractual Warranty terms

The Groupe LDLC warranty terms certifies that this device has no default neither in parts nor in mounting, and Groupe LDLC offers a 5-year warranty on the power supply parts delivered with the case starting from the purchasing date. Carefully keep your receipt. This product is designed for computer use only. Using this product for any other use will void the warranty. If you are not used to install computing materials, ask for a professional assistance. The warranty is free for the device regarding normal use damages. Warranty will be void if it is proved that the device was damaged by abuse, modification, negligence, non-proper voltage power supply, air/water pollution accidents and natural disasters.

2. Transfer of ownership and warranties

If the equipment is passed on to another user, this warranty may be transferred. However, the new user will benefit from this warranty only for the remainder of the original warranty period, under the condition to possess the Original proof of purchase of the power supply unit.

For more detailed information, please read our “General Terms and Conditions of Sale” available on our website: <http://www.ldlc.com>.

3. To contact us

You will find any related information on our websites: <http://www.ldlc.com> or on <http://www.ldlc-pro.com>.

As an individual, please contact our Technical support:

- By e-mail, via our page: <http://www.ldlc.com/faq/>
- By phone:
 - From France: 04 27 46 6000*
 - From abroad: + 33 4 27 46 6000*

*Call rate: any surcharge, the call rate is the one applied by your operator.

As a professional, please contact our Technical support:

- By e-mail, via our CONTACT page: <http://www.ldlc-pro.com/content/2757.html>
- By phone (Unique number):
 - From France: 04 27 46 6005*
 - From abroad +33 4 27 46 6005*

*Call rate: any surcharge, the call rate is the one applied by your operator.