



# ASTRO LITE 650W

Drive your Power and Exceed your Expectation



Astro Lite is a 80 PLUS Gold Certified Modular PSU with outstanding performance at a competitive price. It's a special tuned single +12V rail at powerful 62.5A max built with 90% efficiency at 50% load for power users. When the system is receiving enough power to supply all components in the PC system from a single rail, there would never be any power regulation issues since all power is drawn from just one source. Astro is all you need to keep up with competition.

## Features :

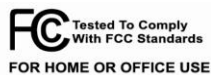
- **80 Plus Gold Certified**  
With 87%~90% extreme high efficiency at 20%~100% of load to reduce the loss of electricity and save your money on facility bill.
- **Long Cable Length**  
Long cables support the cable management behind motherboard.
- **Silent Design**  
Embedded 13.5cm sleeve ball bearing golf-surfaced fan. The patented golf-surfaced fan increases airflow and reduce overall noise level.
- **Patented Easy Swap Connector**  
Quick and easy installation.
- **Advanced DC to DC Converter**  
Unparalleled DC to DC converters for 3.3V & 5V outputs to reach high efficiency.
- **Easily Detachable and Flexible Flat Modular Cables**  
Use only the cables you need. Reduce clutter from unused connectors and enhance the air flow inside your system.
- **Smart Fan Control**  
Equipped with "Smart Fan Control" design, which offers two types of operation modes, silent mode and cooling mode. The Astro adjusts fan operation mode automatically according to the system loading as well as the ambient temperature level.
- **ErP Compliance**  
Its standby and off mode wouldn't exceed 0.5W consumption to save energy and maintain sustainable environment.
- **Single +12V Output Rail**  
Offers maximum compatibility for the +12V demand.
- **Japanese-made Main Capacitors**  
Longer lifespan than electrolytic capacitors.
- **Reliable Japanese-made Solid-state Capacitors**  
Enhance your system durability and stability even under extreme conditions.



# ASTRO LITE 650W

Drive your Power and Exceed your Expectation

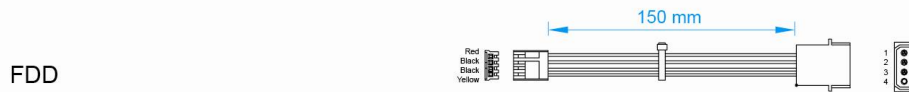
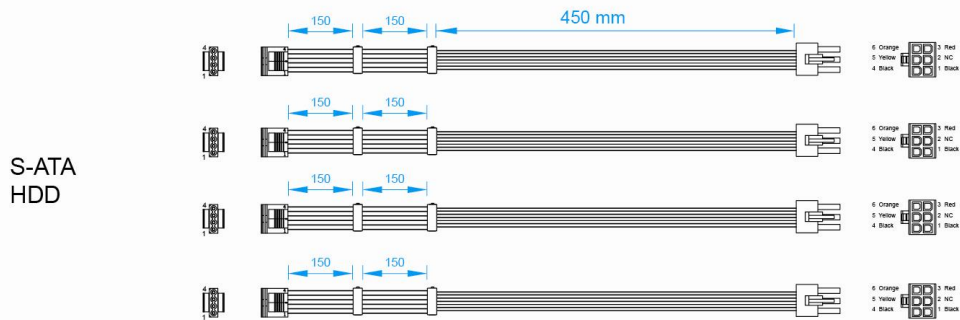
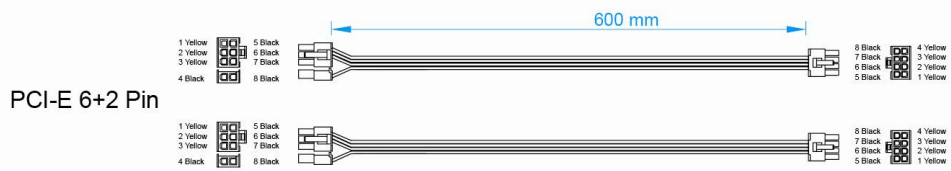
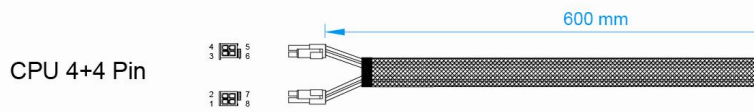
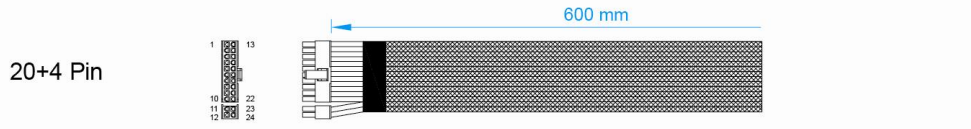
| Product Name            |               | AL- 750GD                    | AL- 650GD                    | AL- 550GD                    |
|-------------------------|---------------|------------------------------|------------------------------|------------------------------|
| Model Number            |               | HPM-750GD-F14C               | HPM-650GD-F14C               | HPM-550GD-F14C               |
| Input                   | Voltage       | 100-240V                     | 100-240V                     | 100-240V                     |
|                         | Current       | 10A                          | 10A                          | 8A                           |
|                         | Total Watts   | 750W                         | 650W                         | 550W                         |
| Output                  | +5V           | 22A                          | 22A                          | 20A                          |
|                         | +3.3V         | 22A                          | 22A                          | 20A                          |
|                         | +12V          | 62.5A                        | 54.2A                        | 45.9A                        |
|                         | -12V          | 0.3A                         | 0.3A                         | 0.3A                         |
|                         | +5Vsb         | 3.0A                         | 3.0A                         | 3.0A                         |
|                         | +5V+3.3V      | 120W                         | 120W                         | 105W                         |
|                         | +12V Combined | 750W                         | 650W                         | 550W                         |
| Connectors              | 20+4pin       | 1                            | 1                            | 1                            |
|                         | CPU 4Pin      | 0                            | 0                            | 0                            |
|                         | CPU 4+4Pin    | 1                            | 1                            | 1                            |
|                         | CPU 8Pin      | 0                            | 0                            | 0                            |
|                         | PCI-E 6+2pin  | 4                            | 2                            | 2                            |
|                         | PCI-E 6pin    | 0                            | 0                            | 0                            |
|                         | SATA          | 8                            | 8                            | 8                            |
|                         | HDD           | 4                            | 4                            | 4                            |
|                         | FDD           | 1                            | 1                            | 1                            |
| Dimension (W / D / H)   |               | 150x160x86mm                 | 150x160x86mm                 | 150x160x86mm                 |
| Fan Bearing             |               | Sleeve bearing fan           | Sleeve bearing fan           | Sleeve bearing fan           |
| Fan Size(cm)            |               | 13.5cm                       | 13.5cm                       | 13.5cm                       |
| Modular Cable           |               | Semi-modular                 | Semi-modular                 | Semi-modular                 |
| Off-Delay Fan           |               | -                            | -                            | -                            |
| LED Power Meter         |               | -                            | -                            | -                            |
| D-VRM                   |               | -                            | -                            | -                            |
| Japanese Capacitors     |               | Main                         | Main                         | Main                         |
| Solid- state Capacitors |               | V                            | V                            | V                            |
| Double -sided PCB       |               | -                            | -                            | -                            |
| Flat Cable              |               | V                            | V                            | V                            |
| +12V Rail               |               | 1 Rail                       | 1 Rail                       | 1 Rail                       |
| Protection              |               | UVP/OVP/OPP/<br>SCP/OCP/OTP  | UVP/OVP/OPP/<br>SCP/OCP/OTP  | UVP/OVP/OPP/<br>SCP/OCP/OTP  |
| Safety                  |               | FCC,CE,cTUVus,<br>TUV,CB,CCC | FCC,CE,cTUVus,<br>TUV,CB,CCC | FCC,CE,cTUVus,<br>TUV,CB,CCC |
| 80 PLUS                 |               | Gold                         | Gold                         | Gold                         |



# ASTRO LITE 650W

Product No.: AL-650GD

## Cable management



Modular Cables

| 20+4pin | CPU 4+4Pin | PCI-E 6+2Pin | SATA | HDD | FDD |
|---------|------------|--------------|------|-----|-----|
| 1       | 1          | 2            | 8    | 4   | 1   |