Combo KVM Installation Guide

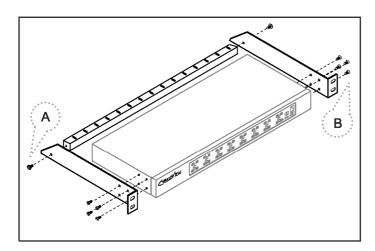
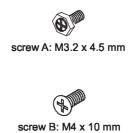


Figure 1. Installing the bracket to the KVM.



■ Install each bracket using screws provided shown in **Figure 1**.

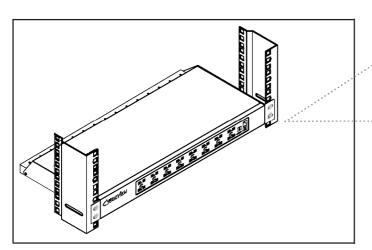
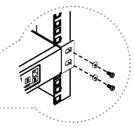
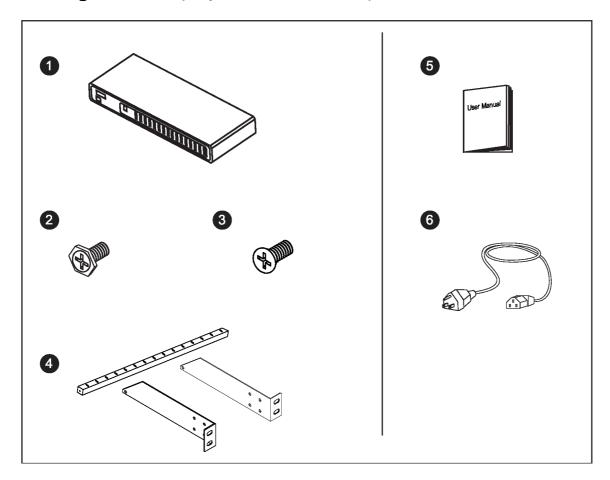


Figure 2. Fixing the KVM into the rack.



- Fix the KVM into the rack
- * Hardware for fixing the mounting bracket to the rack is not provided

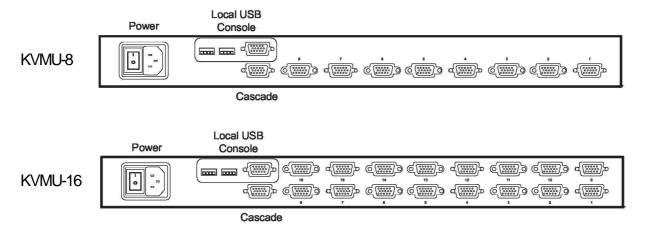
Package Content (only for rackmount KVM)

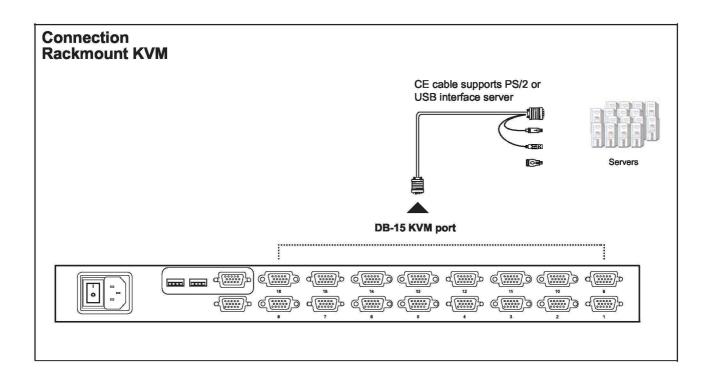


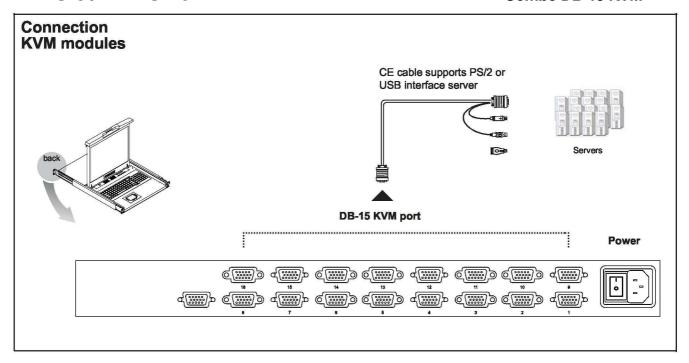
- 1 KVM switch x 1 pc
- 2 Screw M3.2 x 4.5mm x 4 pcs
- 3 Screw M4 x 10mm x 8 pcs
- 4 Bracket x 1 set
- 5 User manual x 1 pc
- 6 Power cord x 1 pc

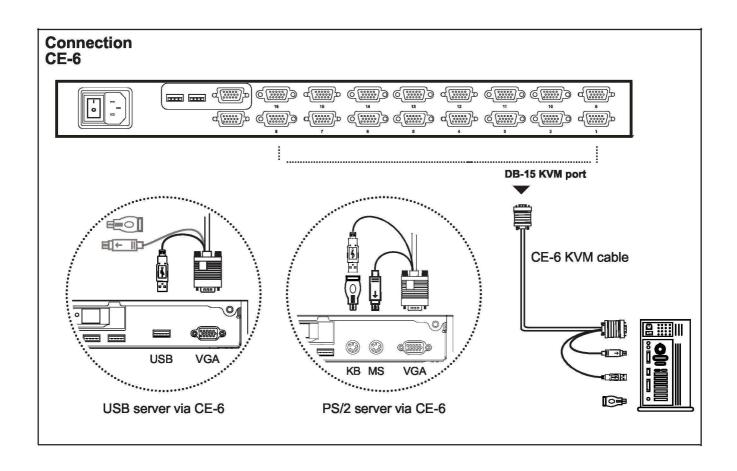
KVMU-8 / KVMU-16

Connection



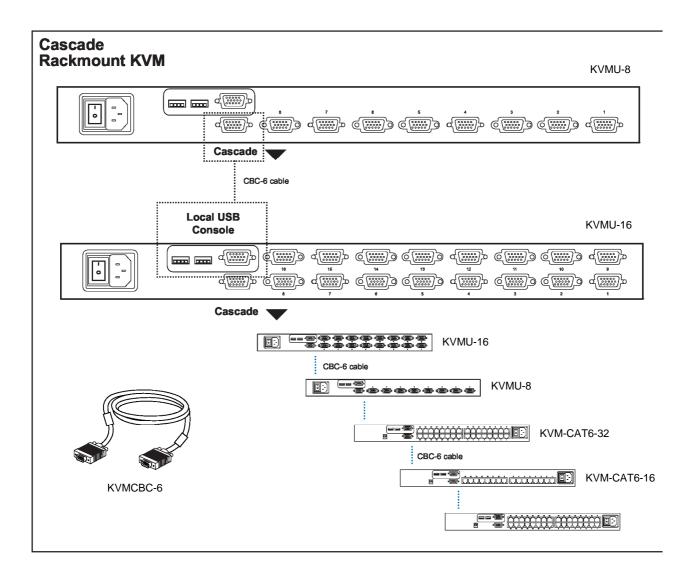






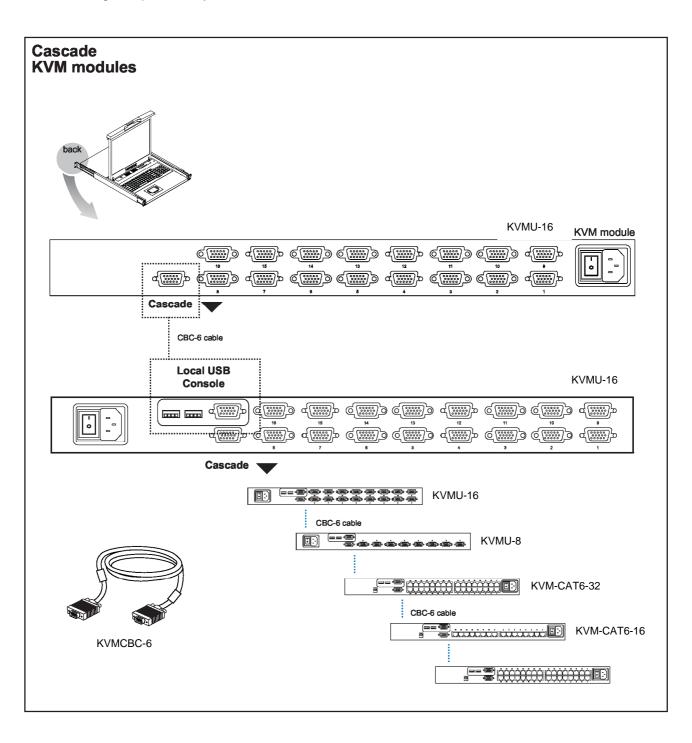
Cascade

- Cascade up to 8 levels, 128 servers
- Interconnection with Combo Cat6 KVM
- Cascading multiple KVM by KVMCBC-6 cable.



Cascade

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Specifications Combo DB-15 KVM

KVMU-8 / KVMU-16

■ KVM Port

Number of ports: 8 or 16

Connector: DB-15 combo connector

Connectivity: Combo 4-in-1 KVM cable, up to 6, 10 & 15 feet

■ Local Console

Graphic connector: 1 x DB-15 VGA Resolution: Up to 1600 x 1200

Input device: 2 x USB type A for keyboard & mouse

■ Management

Multilingual OSD: English, France, German, Spanish, Italian, Russian, Simplified Chinese,

Japanese

Hotkey combination: Scroll-lock, Cap-lock, Num-lock, Alt, Ctrl & Win

Security: Password enable & disable, up to 8 users proble for port access

PC Selection: Front button, OSD menu & hotkey

■ Expansion: Up to 128 servers by 8-level cascade

■ Compatibility

Multi-platform: Mix PCs, SUNs, IBMs, HPs, DELLs Server

Support: Windows Vista / 2003 / XP / 2000, Linux, Netware, Unix

■ Power

Input: 100 or 240V AC at 50 or 60 Hz via IEC type cord OR

AC / DC power adapter 12V@3.3A (optional)

Option DC: 12V / 24V / 48V DC input
Consumption: Max. 48 Watt, Standby 5 Watt

■ Regulatory Approval: FCC, CE

■ Environmental

Operating: $0 \text{ to } 50^{\circ}$ C Storage: $-5 \text{ to } 60^{\circ}$ C

Relative humidity: 90%, non-condensing

Shock: 50G peak acceleration (11ms, half-sine wave)

Vibration: 58~100Hz / 0.98G (11ms / cycle)

■ Product Information

Dimension (W x D x H): 446 x 180 x 44 mm / 17.6 x 7.1 x 1.73 inch

Net weight: 4 kg / 9 lb

■ Packing Information

Dimension (W x D x H): 510 x 400 x 77 mm / 20.1 x 15.7 x 3 inch

Gross weight: 7 kg / 15 lb

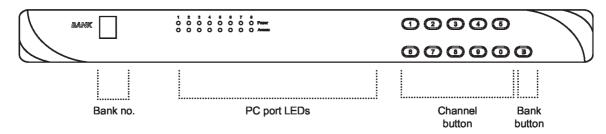
KVM Button Combo KVM Usage

Power ON

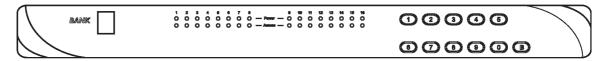
- Turn off all servers and KVM switches
- Make sure all cables / connectors are properly connected
- Recommend Power ON sequence is monitor, KVM switch ⊳nally computer

Front Panel - Port LED Indications

8 ports



16 ports



| Bank no. | 7-Segment BANK LED indication | | |
|----------------|---|--|--|
| PC port LEDs | Power : Orange LED on indicating a PC is connecting to the port | | |
| | Access: Red LED on indicating a selected channel | | |
| Channel button | Press to select channel from 01 to 16 | | |
| Bank button | Select the bank from 1 to 8 | | |

Password Combo KVM Usage

The password is disabled by default (i.e. There is no password required when you power on the KVM switch for the first time)

■ Enable password

- 1. Press the KVM hotkey Scroll Lock + Scroll Lock + U
- 2. Logout the KVM by pressing the hotkey Scroll Lock + Scroll Lock + P
- 3. In SUPERVISOR level, enter "00000000" eight zeros in user name & password field (Do not use "0" on number pad)
- 4. In USER level, press **Space bar** + **Enter** in user name & password field Remark: Automatic logout after 10 minutes of inactivity

■ Set your own user name & password

- Login the KVM in SUPERVISOR level by pressing "00000000" eight zeros in user name & password field
- 2. Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
- 3. Press F1 to the MAIN MENU
- 4. Select "USER SECURITY"
- 5. Set password in SUPERVISOR & USER level
 - a. In the left-top row "S" (SUPERVISOR), press Enter to set your own user name & password
 - b. In the row 1 to 8 (USER), press Enter to set your own user name & password
- 6. Press Enter to save the setting or press Esc to cancel the editing without any change
- Remark: a. Blank has underscore, while SPACE doesn't have
 - b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

■ Change your password

- 1. Login the KVM in SUPERVISOR level by pressing your own user name & password
- 2. Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
- 3. Press F1 to the MAIN MENU
- 4. Select "USER SECURITY"
- 5. Change password in SUPERVISOR & USER level
 - a. In the left-top row "S" (SUPERVISOR), press Enter to change your user name & password
 - b. In the row 1 to 8 (USER), press Enter to change your user name & password
- 6. Press Enter to save the setting or press Esc to cancel the editing without any change
- Remark: a. Blank has underscore, while SPACE doesn't have
 - b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

■ Disable your password

- Press the KVM hotkey Scroll Lock + Scroll Lock + U
- 2. Logout the KVM by pressing the KVM hotkey Scroll Lock + Scroll Lock + P
- 3. You don't need user name & password to access the KVM OSD menu

■ Forget your password

Please contact your supplier for further support

Remark:

- You must press the KVM hotkey within 2 seconds
- A beep sound will be heard for successful entering KVM hotkey

KVM OSD

Combo KVM Usage

OSD Menu

| PORT NAME | |
|---|--|
| BANK: 1 01☆ SYSTEM 01 ♥ 02☆ SYSTEM 02 03☆ SYSTEM 03 04☆ SYSTEM 04 05☆ SYSTEM 05 06☆ SYSTEM 06 07☆ SYSTEM 07 08☆ SYSTEM 07 | F1: MENU F2: LOGOUT F3: PREV ESC: QUIT ENTER: COMPLETE ♠/♣: SELECT PgUp/PgDn: BANK SELECT |
| 35m 3.3.2m 30 | USER: SUPERVISOR SCAN TIME: 10 SEC FW1V3 |

OSD operation

| next to the system name | The PC is powered on | | |
|-------------------------|---|--|--|
| next to the system name | The PC is selected | | |
| F1 | Access F1 MAIN MENU | | |
| F2 | Logout the OSD menu | | |
| F3 | Previous menu | | |
| Esc | Cancel / Quit | | |
| Enter | Complete / Switch to selected port | | |
| ★/ 基 | Switch to previous or next port | | |
| PgUp/PgDn | Switch to previous bank or next bank | | |
| 1/2/3/4 | Display port 01 ~ 08 / 09 ~ 16 / 17 ~ 24 / 25 ~ 32 Remark: Display port 17 ~ 32 for 32 port model only | | |

F1 Main Menu

| MAII | NN MENU | ₹ X |
|------|----------------|-----|
| SEL | LECT OPTION : | |
| 01 | LANGUAGE | |
| 02 | PORT NAME EDIT | |
| 03 | PORT SEARCH | |
| 04 | USER SECURITY | |
| 05 | ACCESS LIST | |
| 06 | HOTKEY | |
| 07 | TIME SETTINGS | |
| 80 | OSD MOUSE | |

| 01 | LANGUAGE | OSD language change |
|----|----------------|-----------------------------------|
| 02 | PORT NAME EDIT | Define port name |
| 03 | PORT SEARCH | Quick searching by port name |
| 04 | USER SECURITY | Change password |
| 05 | ACCESS LIST | Define user access authority |
| 06 | HOTKEY | Change hotkey |
| 07 | TIME SETTINGS | Modify scan display time interval |
| 08 | OSD MOUSE | Modify OSD mouse speed |

To enable / disable the screen saving

function and 10 minutes auto-logout *Default the screen saving is OFF

Local Console Hotkey

| Hotkey | Function | | | |
|---|---|--|--|--|
| Scroll Lock + Scroll Lock + Space | e Bar Calling OSD menu | | | |
| Right-button mouse + Esc | Calling OSD menu | | | |
| Scroll Lock + Scroll Lock + | Switch to previous port | | | |
| Scroll Lock + Scroll Lock + | Switch to next port | | | |
| Scroll Lock + Scroll Lock + PgU | p / PgDn Switch to previous bank or next bank | | | |
| Scroll Lock + Scroll Lock + Bank | no. + Port no. Switch to specific port | | | |
| Scroll Lock + Scroll Lock + B | Turn the buzzer ON and OFF * Default the buzzer is ON | | | |
| Scroll Lock + Scroll Lock + P | Logout the KVM if password security is ON. Show up the status windows | | | |
| Advance hotkeys (for Supervisor login only) | | | | |
| Scroll Lock + Scroll Lock + S | Activate auto-scan mode for connected servers *Press any key to exit the auto-scan mode | | | |
| Scroll Lock + Scroll Lock + R | Reset all the KVM settings to factory default *Except User Security settings | | | |
| Scroll Lock + Scroll Lock + U | Disable and enable password security *Default security is OFF | | | |

Remarks:

- Example of "Scroll Lock + Scroll Lock + Bank no. + Port no."
 - Bank No.: 1 to 8Port No.: 01 to 16
 - e.g. Bank 1 Port 4 : Scroll Lock + Scroll Lock + 1 + 0 + 4
 - e.g. Bank 2 Port 16: Scroll Lock + Scroll Lock + 2 + 1 + 6
- You must press the hotkey within 2 seconds

Scroll Lock + Scroll Lock + L

- A beep sound will be heard for successful entering
- The numeric keypad is not supported, while in OSD screen, the arrow keys, PgUp, PgDn, and Enter keys are supports

Remote Console Hotkey

| Hotkey | Function | | |
|----------------------------|---|--|--|
| Caps Lock + Caps Lock + F1 | Show up the Help OSD windows | | |
| Caps Lock + Caps Lock + F2 | Select Hotkey *Default is Caps Lock | | |
| Caps Lock + Caps Lock + C | Toggle switch between remote & local port | | |
| Caps Lock + Caps Lock + Q | Turn the buzzer ON & OFF *Default the buzzer is ON | | |
| Caps Lock + Caps Lock + S | Activate auto-scan mode for remote & local port *The scan time interval is 5 seconds | | |
| Caps Lock + Caps Lock + A | Auto-adjust the video signal | | |

IP Setting Combo KVM Usage

Quick Installation Guide of IP KVM for remote access

Please perform the follow steps

- 1. Power off all KVM hardware and connected devices.
- 2. Connect the power supply to IP KVM
- 3. Connect the monitor, keyboard & mouse to console port of IP KVM (not applicable to integrated LCD drawer version)
- 4. Connect the KVM cable to IP KVM and target servers
- 5. Use an Ethernet cable to connect your local area network (LAN) to the IP console port on the KVM

Initial IP configuration

The factory default, DHCP mode is disable (IP auto configuration = None), and the preset default address as below:

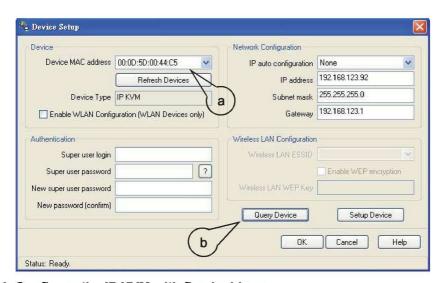
IP address: 192.168.1.22 (default)

Subnet-mask: 255.255.255.0

Default Gateway: None

Install the "PSetup.exe" program from the provided CD-disc to a computer which networked with IP KVM switch, then press Refresh Devices the look for the IP-KVM.

- a. Select the MAC address from label on the bottom of the IP-KVM switch
- b. Click Query Device



1. Configure the IP KVM with fixed address

- a. Setup "IP auto configuration" as "None"; setup IP address and Subnet mask
- b. Enter Super user login and password for Authentication (default : super/pass)
- c. Setup Device. If super login was authenticated, it'll show "Successfully configured device". Otherwise it'll show "Permission Denied".

2. Configure the IP KVM with DHCP

- a. Setup "IP auto configuration" as "DHCP"
- b. Enter Super user login and password for Authentication (default : super/pass)
- c. Setup Device. If super login was authenticated, it'll show "Successfully configured device". Otherwise it'll show "Permission Denied".

3. Install JVM on Client system

The IP-KVM switch was remote accessed by a standard JAVA enabled web browser. The client system must install Sun JVM 1.4.2 or above for remote access the IP KVM.

Remark:

■ At a minimum, you must have Internet Explorer 6.0 or Netscape 7.0 or Molliza 1.6 (and above) installed on your client computer.

IP Setting Combo KVM Usage

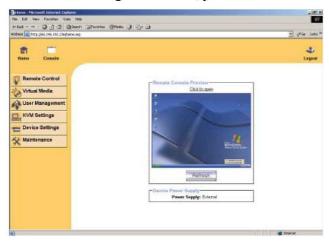
4. Remote access the IP-KVM switch via Web

Using the HTTP protocol or a secure encrypted connection via HTTPS and entering the configured IP address of IP KVM switch into the web browser to remote access the IP KVM switch.

With successful connection to IP KVM, the login page will show as below, then key in the default user name & password



5. After successful login to IP KVM, you will enter the main page of IP KVM as below:



Remark:

- We strongly recommend the user changes the default username and password to user specific values
- Please refer to the "IP KVM User Manual" for more detailed information about IP KVM switch.

6. Bandwidth

| | Compression | Color Depth | Used Bandwidth | Comment |
|---------------------------------|----------------------|----------------|-------------------|--|
| Video Optimized | Video Optimized | 8 bit | 3.0 - 3.3 MB/s | uncompressed, synchronized video data, most bandwidth needed |
| Video Optimized (high color) | Video Optimized | 16 bit | 4.3 - 5.0 MB/s | uncompressed, synchronized video data, most bandwidth needed |
| LAN (high color) | 0 (no compression) | 16 bit | 1.0 - 1.3 MB/s | uncompressed video data |
| LAN | 0 (no compression) | 8 bit | 500 - 700 kb/s | uncompressed video data |
| DSL | 2 | 8 bit | 110 - 140 kb/s | slower video because of compression |
| UMTS | 4 | 8 bit | 80 - 100 kb/s | slower video because of compression |
| ISDN 128k | 6 | 4 bit | 20 - 30 kb/s | 16 colors |
| ISDN/Modem V.90 | 7 | 2 bit | 13 - 17 kb/s | gray scale |
| GPRS/HSCSD | 8 | 2 bit | 5 - 7 kb/s | gray scale |
| GSM Modem | 9 (best compression) | 1 bit | 1 - 3 kb/s | black&white video |

Optional Accessories

Combo KVM Usage

1. Combo KVM cable

- 1.1 KVMCE-6 6 feet
- 1.2 KVMCE-10 10 feet
- 1.3 KVMCE-15 15 feet

2. Cat5 cable

- 2.1 KVMCU-3 3 feet
- 2.2 KVMCU-6 6 feet
- 2.3 KVMCU-10 10 feet
- 2.4 KVMCU-15 15 feet
- 2.5 KVMCU-33 33 feet
- 2.6 KVMCU-66 66 feet



3.1 KVMCBC-6 6 feet

4. DVI-USB Dongle

4.1 DG-100SD DVI-D

5. VGA-USB Dongle

5.1 DG-100S USB

6. VGA-PS/2 Dongle

6.1 DG-100 PS/2

7. Power cord

7.1 IEC power cord

7.2 NEMA 5-15 power cord (US)

7.3 BS 1363 power cord (UK) 7.4

CEE 7/4 power cord (German) 7.5

AS 3112 power cord (Australia)

















| Model | 12V | 24V | 48V |
|-----------------|---------|----------|----------|
| Input rating | | | |
| Input voltage: | 12-Volt | 24-Volt | 48-Volt |
| Input range: | 9 ~ 18V | 18 ~ 36V | 36 ~ 75V |
| Input current | | | |
| - No load | 50 mA | 50 mA | 50 mA |
| - Full load | 4950 mA | 2450 mA | 1220 mA |
| Output rating | | | |
| Output voltage: | 12-Volt | 12-Volt | 12-Volt |
| Output current: | 4.16A | 4.16A | 4.16A |
| Efficiency | 84% | 85% | 85% |

Remarks:

■ Package does not include power cord