



MA Electronics

Desk Top Adapter Product

Single Output Desk Top, Dual Output Desk Top, DC/DC Desk Top

~~~~~ We Offer Our Product As ~~~~~

**\* Low Cost \*High Efficiency \*Flexibility  
\*Competitive Quotation Model \*Preventive Programs**



**MA Electronics Pte Ltd**

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## **MA Electronics Pte Ltd**

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## **Company profile**

MA Electronics Pte Ltd designs and manufactures switching power adapters, OEM/ODM power supplies and AC adapters, industrial and medical SMPS, battery chargers and power supplies and LED lighting systems for IT companies.

We are ISO 9001:2000 , ISO 14001:2004 and OHSAS 18001-2007-certified for production facilities and subcontractors located in Singapore and China.

## **What we offer our product as :**

### **Low Cost**

- Leverage high volume procurement
- Reduce inventory costs (local hub...etc.) and handling expenses (transportation.. etc.)

### **High Efficiency**

- Global logistics
- Efficient material management system
- Well-Trained and productive employees
- Flexible and efficient high-volume manufacturing
- Most advanced manufacturing facilities

### **Competitive Quotation Model**

- Transparency of material cost, labour cost, overhead..etc.

### **Flexibility**

- Component can be purchased either by MA Electronics or consigned by the customer
- Two ways feedback to ensure the lowest cost of total ownership.

### **Preventive Programs**

- Preventive quality control
- Efficient corrective action program

## **Our Partner Policy**

Develop mutually beneficial relationships

Provide our partners with products that meet their requirements of:

- Qualit
- Features
- Price
- Performance
- Fast Time-to-market

# CONTENTS

## Desk Top Adapter, Single Output

|                                                                               |      |
|-------------------------------------------------------------------------------|------|
| <u>8-18W Series: 3V~24V (8~18Watts Max.)</u>                                  | P.1  |
| <u>20-30W Series: 5V~24V (20~30Watts Max.)</u>                                | P.2  |
| <u>24W Series: 5V~48V (20~24Watts Max.)</u>                                   | P.3  |
| <u>30W Series: 5V~24V (25~30Watts Max.)</u>                                   | P.4  |
| <u>36-40W Series: 12V~17V (36Watts Max.) &amp; 18V~24V (40Watts Max.)</u>     | P.5  |
| <u>30-40W Series: 18V~20V (30~40Watts Max.)</u>                               | P.6  |
| <u>45-50W Series: 9V~48V (45~50Watts Max.)</u>                                | P.7  |
| <u>50-60W Series: 12V~24V (60Watts Max.)</u>                                  | P.8  |
| <u>60~65W Series: 12V~24V (60~65Watts Max.)</u>                               | P.9  |
| <u>65W Slim Type Series: 15V~24V (65Watts Max.)</u>                           | P.10 |
| <u>60~72W Series: 12V~24V (60~72Watts Max.)</u>                               | P.11 |
| <u>90W Series: 12V~24V (90Watts Max.)</u>                                     | P.12 |
| <u>90W Slim Type Series: 15V~24V (90Watts Max.)</u>                           | P.13 |
| <u>90W Combo Type Series : 15V~24V (90Watts Max.)</u>                         | P.14 |
| <u>120W Series: 12V~56V (110~120Watts Max.)</u>                               | P.15 |
| <u>120-150W Series: 12V~17V (120~130W Max.) &amp; 18V~24V (135~150W Max.)</u> | P.16 |
| <u>200W Series: 12V~48V (180~200Watts Max.)</u>                               | P.17 |

## Desk Top Adapter, Dual Output

|                                                                                |      |
|--------------------------------------------------------------------------------|------|
| <u>25-29W Series: 5V &amp; 12V (29Watts Max.)</u>                              | P.18 |
| <u>43W Series: 5V/12V/-12V (43Watts Max.) &amp; 5V/15V/-15V (43Watts Max.)</u> | P.19 |

## DC/DC Desk Top Adapter, Single Output

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| <u>30W Series: 8V~12V (30Watts Max.)</u>                                   | P.20 |
| <u>41-72W Series: 10.25V/4A (41Watts Max.) &amp; 5V~12V (72Watts Max.)</u> | P.21 |
| <u>75W Series: 15V~24V (75Watts Max.)</u>                                  | P.22 |
| <u>90W Slim &amp; Compact Size Series : 16V~24V (90Watts Max.)</u>         | P.23 |
| <u>120W Series : 16V~24V (120W Max.)</u>                                   | P.24 |

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# Desk Top Adapter, Single Output

## 8-18Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 3V~24V (8~18Watts Max.)**

| Item       | Input Range                        | O/P Voltage | O/P Current | Watt     |
|------------|------------------------------------|-------------|-------------|----------|
| AC01505XXX | AC 90~264V<br>47~63Hz<br>0.6A Max. | 5V          | 3.00A       | 15W Max. |
| AC01506XXX |                                    | 6V          | 2.50A       | 15W Max. |
| AC01507XXX |                                    | 7V          | 2.14A       | 15W Max. |
| AC01508XXX |                                    | 8V          | 1.87A       | 15W Max. |
| AC01509XXX |                                    | 9V          | 1.66A       | 15W Max. |
| AC01510XXX |                                    | 10V         | 1.50A       | 15W Max. |
| AC01511XXX |                                    | 11V         | 1.36A       | 15W Max. |
| AC01512XXX |                                    | 12V         | 1.25A       | 15W Max. |
| AC01514XXX |                                    | 14V         | 1.07A       | 15W Max. |
| AC01515XXX |                                    | 15V         | 1.00A       | 15W Max. |
| AC01516XXX |                                    | 16V         | 0.94A       | 15W Max. |
| AC01517XXX |                                    | 17V         | 0.88A       | 15W Max. |

- AC Plug: IEC320 C8, C6, C14 Available
- Inrush Current: 50A Maximum
- Line Regulation: 2% Maximum
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 1% Maximum
- Safety Approvals: UL/CUL/TUV/LPS/CB/BSMI/CEC/CE
- Efficiency: 73~82% Typical
- MTBF: 40,000 Hours
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Cooling: Natural Convection Cooling
- Case Dimensions: C8: L89xW49xH31(mm); C6: L89xW49xH31(mm); C14: L93xW49xH35(mm)

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# Desk Top Adapter, Single Output

## 20-30Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 5V~24V (20~30Watts Max.)**

| Item       | Input Range                               | O/P Voltage | O/P Current | Watt     |
|------------|-------------------------------------------|-------------|-------------|----------|
| AC02005XXX | AC 90~264V<br>47~63Hz<br>0.8~1.0A<br>Max. | 5V          | 4.00A       | 20W Max. |
| AC02006XXX |                                           | 6V          | 3.33A       | 20W Max. |
| AC02008XXX |                                           | 8V          | 2.50A       | 20W Max. |
| AC02009XXX |                                           | 9V          | 2.22A       | 20W Max. |
| AC02010XXX |                                           | 10V         | 2.00A       | 20W Max. |
| AC03012XXX |                                           | 12V         | 2.50A       | 30W Max. |
| AC03015XXX |                                           | 15V         | 2.00A       | 30W Max. |
| AC03016XXX |                                           | 16V         | 1.87A       | 30W Max. |
| AC03018XXX |                                           | 18V         | 1.66A       | 30W Max. |
| AC03020XXX |                                           | 20V         | 1.50A       | 30W Max. |
| AC03022XXX |                                           | 22V         | 1.36A       | 30W Max. |
| AC03024XXX |                                           | 24V         | 1.25A       | 30W Max. |

- AC Plug: IEC320 C8, C6, C14 Available
- Inrush Current: 40A Maximum
- Line Regulation: 2% Maximum
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 1% Maximum
- Safety Approvals: UL/CUL/TUV/LPS/CB/BSMI/CEC/CE/FCC
- Efficiency: 78% Typical
- MTBF: 40,000 Hours
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Cooling: Natural Convection Cooling
- Case Dimensions: C8: L89xW49xH31(mm); C6: L89xW49xH31(mm); C14: L93xW49xH35(mm)

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# Desk Top Adapter, Single Output

## 24Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 5V~48V (20~24Watts Max.)**

| Item       | Input Range                         | O/P Voltage | O/P Current | Watt  |
|------------|-------------------------------------|-------------|-------------|-------|
| AC02005XXX | AC 90~264V<br>47~63Hz<br>0.58A Max. | 5.0V        | 4.0A        | 20.0W |
| AC021059XX |                                     | 5.9V        | 3.5A        | 21.0W |
| AC02107XXX |                                     | 7.0V        | 3.0A        | 21.0W |
| AC022075XX |                                     | 7.5V        | 3.0A        | 22.5W |
| AC02209XXX |                                     | 9.0V        | 2.5A        | 22.5W |
| AC024095XX |                                     | 9.5V        | 2.5A        | 24.0W |
| AC02412XXX |                                     | 12.0V       | 2.0A        | 24.0W |
| AC02415XXX |                                     | 15.0V       | 1.6A        | 24.0W |
| AC02424XXX |                                     | 24.0V       | 1.0A        | 24.0W |
| AC02448XXX |                                     | 48.0V       | 0.5A        | 24.0W |

- AC Plug: IEC320 C8 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: C8: L88xW50xH34(mm)
- Weight: C8: 166g (reference)

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# Desk Top Adapter, Single Output

## 30Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 5V~24V (25~30Watts Max.)**

| Item       | Input Range                           | O/P Voltage | O/P Current | Watt  |
|------------|---------------------------------------|-------------|-------------|-------|
| AC02505XXX | AC<br>90~264V<br>47~63Hz<br>0.7A Max. | 5.0V        | 5.0A        | 25.0W |
| AC02709XXX |                                       | 9.0V        | 3.0A        | 27.0W |
| AC03012XXX |                                       | 12.0V       | 2.5A        | 30.0W |
| AC03015XXX |                                       | 15.0V       | 2.0A        | 30.0W |
| AC03024XXX |                                       | 24.0V       | 1.25A       | 30.0W |

- AC Plug: IEC320 C8 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: C8: L88xW50xH34(mm)
- Weight: C8: 230g (reference)

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# Desk Top Adapter, Single Output

## 36~40Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 12V~17V (36W Max.) & 18V~24V (40W Max.)**

| Item       | Input Range                               | O/P Voltage | O/P Current | Watt     |
|------------|-------------------------------------------|-------------|-------------|----------|
| AC03612XXX | AC 90~264V<br>47~63Hz<br>0.8~1.0A<br>Max. | 12V         | 3.00A       | 36W Max. |
| AC03613XXX |                                           | 13V         | 2.77A       | 36W Max. |
| AC03614XXX |                                           | 14V         | 2.57A       | 36W Max. |
| AC03615XXX |                                           | 15V         | 2.40A       | 36W Max. |
| AC03616XXX |                                           | 16V         | 2.25A       | 36W Max. |
| AC03617XXX |                                           | 17V         | 2.12A       | 36W Max. |
| AC04018XXX |                                           | 18V         | 2.22A       | 40W Max. |
| AC04019XXX |                                           | 19V         | 2.10A       | 40W Max. |
| AC04020XXX |                                           | 20V         | 2.00A       | 40W Max. |
| AC04021XXX |                                           | 21V         | 1.90A       | 40W Max. |
| AC04022XXX |                                           | 22V         | 1.82A       | 40W Max. |
| AC04024XXX |                                           | 24V         | 1.66A       | 40W Max. |

- AC Plug: IEC320 C8, C6, C14 Available
- Inrush Current: 40A Maximum
- Line Regulation: 2% Maximum
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 1% Maximum
- Safety Approvals: UL/CUL/TUV/LPS/CB/BSMI/CEC/CE/FCC
- Efficiency: 78% Typical
- MTBF: 40,000 Hours
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Cooling: Natural Convection Cooling
- Case Dimensions: C8: L89xW49xH31(mm); C6: L89xW49xH31(mm); C14: L93xW49xH35(mm)

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# Desk Top Adapter, Single Output

## 30 / 40Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/E
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 18V~20V (30~40W Max.)**

| Item       | Input Range                           | O/P Voltage | O/P Current | Watt |
|------------|---------------------------------------|-------------|-------------|------|
| AB03018XXX | AC<br>90~264V<br>47~63Hz<br>1.0A Max. | 18.0V       | 1.66A       | 30W  |
| AB04018XXX |                                       | 18.0V       | 2.20A       | 40W  |
| AB030185XX |                                       | 18.5V       | 1.62A       | 30W  |
| AB040185XX |                                       | 18.5V       | 2.16A       | 40W  |
| AB03019XXX |                                       | 19.0V       | 1.57A       | 30W  |
| AB04019XXX |                                       | 19.0V       | 2.10A       | 40W  |
| AB030195XX |                                       | 19.5V       | 1.53A       | 30W  |
| AB040195XX |                                       | 19.5V       | 2.05A       | 40W  |
| AB03020XXX |                                       | 20.0V       | 1.50A       | 30W  |
| AB04020XXX |                                       | 20.0V       | 2.00A       | 40W  |

- AC Plug: IEC320 C8, C6 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L87.5xW35xH26.5(mm)
- Weight: 140g (reference)

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# Desk Top Adapter, Single Output

## 40 / 50Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 9V~48V (45~50W Max.)**

| Item       | Input Range                           | O/P Voltage | O/P Current | Watt  |
|------------|---------------------------------------|-------------|-------------|-------|
| AB03609XXX | AC<br>90~264V<br>47~63Hz<br>1.1A Max. | 9.0V        | 4.0A        | 36.0W |
| AB04509XXX |                                       | 9.0V        | 5.0A        | 45.0W |
| AB04012XXX |                                       | 12.0V       | 3.3A        | 40.0W |
| AB05012XXX |                                       | 12.0V       | 4.2A        | 50.0W |
| AB05015XXX |                                       | 15.0V       | 3.3A        | 50.0W |
| AB04918XXX |                                       | 18.0V       | 2.7A        | 49.0W |
| AB04919XXX |                                       | 19.0V       | 2.6A        | 49.0W |
| AB05020XXX |                                       | 20.0V       | 2.5A        | 50.0W |
| AB05024XXX |                                       | 24.0V       | 2.1A        | 50.0W |
| AB04848XXX |                                       | 48.0V       | 1.0A        | 48.0W |

- AC Plug: IEC320 C8, C6, C14 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L115xW53xH38(mm)
- Weight: 278g (reference)

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# Desk Top Adapter, Single Output

## 50~60Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 12V~24V (60W Max.)**

| Item       | Input Range                        | O/P Voltage | O/P Current | Watt     |
|------------|------------------------------------|-------------|-------------|----------|
| AC06012XXX | AC 90~264V<br>47~63Hz<br>1.5A Max. | 12V         | 5.00A       | 60W Max. |
| AC06013XXX |                                    | 13V         | 4.62A       | 60W Max. |
| AC06014XXX |                                    | 14V         | 4.29A       | 60W Max. |
| AC06015XXX |                                    | 15V         | 4.00A       | 60W Max. |
| AC06016XXX |                                    | 16V         | 3.75A       | 60W Max. |
| AC06017XXX |                                    | 17V         | 3.53A       | 60W Max. |
| AC06018XXX |                                    | 18V         | 3.33A       | 60W Max. |
| AC06019XXX |                                    | 19V         | 3.16A       | 60W Max. |
| AC06020XXX |                                    | 20V         | 3.00A       | 60W Max. |
| AC06021XXX |                                    | 21V         | 2.86A       | 60W Max. |
| AC06022XXX |                                    | 22V         | 2.73A       | 60W Max. |
| AC06024XXX |                                    | 24V         | 2.50A       | 60W Max. |

- AC Plug: IEC320 C8, C6, C14 Available
- Inrush Current: 100A Maximum
- Line Regulation: 2% Maximum
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 1.5% Typical
- Safety Approvals: UL/CUL/TUV/CB/BSMI/CEC/MEPS/CE
- Efficiency: 85% Typical
- MTBF: 40,000 Hours
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L100xW56xH33(mm)

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# Desk Top Adapter, Single Output

## 60~65Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 12V~24V (60~65W Max.)**

| Item       | Input Range                           | O/P Voltage | O/P Current | Watt |
|------------|---------------------------------------|-------------|-------------|------|
| AB06012XXX | AC<br>90~264V<br>47~63Hz<br>1.4A Max. | 12.0V       | 5.0A        | 60W  |
| AB06515XXX |                                       | 15.0V       | 4.3A        | 65W  |
| AB06416XXX |                                       | 16.0V       | 4.0A        | 64W  |
| AB06518XXX |                                       | 18.0V       | 3.6A        | 65W  |
| AB06519XXX |                                       | 19.0V       | 3.4A        | 65W  |
| AB06520XXX |                                       | 20.0V       | 3.25A       | 65W  |
| AB06524XXX |                                       | 24.0V       | 2.7A        | 65W  |
| AB06030XXX |                                       | 30.0V       | 2.0A        | 60W  |
| AB06432XXX |                                       | 32.0V       | 2.0A        | 64W  |

- AC Plug: IEC320 C8, C6, C14 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L115xW53xH38(mm)
- Weight: 288g (reference)

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# Desk Top Adapter, Single Output

## 65Watts Series (SLIM SIZE type)

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 15V~24V (65W Max.)**

| Item       | Input Range                           | O/P Voltage | O/P Current | Watt |
|------------|---------------------------------------|-------------|-------------|------|
| AB06515SXX | AC<br>90~264V<br>47~63Hz<br>1.4A Max. | 15.0V       | 4.3A        | 65W  |
| AB06416SXX |                                       | 16.0V       | 4.0A        | 64W  |
| AB06518SXX |                                       | 18.0V       | 3.6A        | 65W  |
| AB065185SX |                                       | 18.5V       | 3.5A        | 65W  |
| AB06519SXX |                                       | 19.0V       | 3.4A        | 65W  |
| AB06520SXX |                                       | 20.0V       | 3.25A       | 65W  |
| AB06524SXX |                                       | 24.0V       | 2.7A        | 65W  |

- AC Plug: IEC320 C6 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L108xW46xH32(mm)
- Weight: 248g (reference)

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# Desk Top Adapter, Single Output

## 60-72Watts Series

### FEATURES

- Slim & Compact Size
- CEC Compliance (Optional)
- Economy Model
- RoHS Compliance
- Over Voltage Protective Installation
- Over Current Protective Installation
- Protection Type: Latch off
- 1 Year Warranty



- **Output Range: 12V~24V (60W Max.) & 12V~24V (72W Max.)**

| Item       | Input Range                         | O/P Voltage | O/P Current | Watt     |
|------------|-------------------------------------|-------------|-------------|----------|
| AA060YYXXX | AC<br>90~264V<br>47~63Hz<br>2A Max. | 12-17V      | 5.0A Max.   | 60W Max. |
| AA060YYXXX |                                     | 18-24V      | 3.33A Max.  | 60W Max. |
| AA072YYXXX |                                     | 12-17V      | 6.0A Max.   | 72W Max. |
| AA072YYXXX |                                     | 18-24V      | 4.0A Max.   | 72W Max. |

- AC Plug: IEC320 C14 & C6 Available
- Inrush Current: 90A Maximum
- Line Regulation:  $\pm 1\%$
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 250mV
- Safety Approvals: UL/CUL UL60950, TUV/GS EN/IEC 60950, CB, CE, FCC, PSE
- Efficiency: 85% Typical
- MTBF: >30,000 Hours
- Over-Voltage Protective: Latch off
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Storage Humidity: 5%~95%
- Case Dimensions: L132xW54xH31(mm)
- Weight: 290g (reference)

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# Desk Top Adapter, Single Output

## 90Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 12V~24V (90W Max.)**

| Item       | Input Range                           | O/P Voltage | O/P Current | Watt |
|------------|---------------------------------------|-------------|-------------|------|
| AB08412XXX | AC<br>90~264V<br>47~63Hz<br>1.2A Max. | 12.0V       | 7.0A        | 84W  |
| AB09015XXX |                                       | 15.0V       | 6.0A        | 90W  |
| AB09016XXX |                                       | 16.0V       | 5.6A        | 90W  |
| AB09018XXX |                                       | 18.0V       | 5.0A        | 90W  |
| AB09019XXX |                                       | 19.0V       | 4.74A       | 90W  |
| AB09020XXX |                                       | 20.0V       | 4.5A        | 90W  |
| AB09024XXX |                                       | 24.0V       | 3.75A       | 90W  |

- AC Plug: IEC320 C6 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L139xW61xH36(mm)
- Weight: 415g (reference)

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# Desk Top Adapter, Single Output

## 90Watts Series (SLIM SIZE type)

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 15V~24V (90W Max.)**

| Item       | Input Range                           | O/P Voltage | O/P Current | Watt |
|------------|---------------------------------------|-------------|-------------|------|
| AB09015SXX | AC<br>90~264V<br>47~63Hz<br>1.2A Max. | 15.0V       | 6.0A        | 90W  |
| AB09016SXX |                                       | 16.0V       | 5.6A        | 90W  |
| AB09018SXX |                                       | 18.0V       | 5.0A        | 90W  |
| AB09019SXX |                                       | 19.0V       | 4.74A       | 90W  |
| AB09020SXX |                                       | 20.0V       | 4.5A        | 90W  |
| AB09024SXX |                                       | 24.0V       | 3.75A       | 90W  |

- AC Plug: IEC320 C6 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L129xW54xH32(mm)
- Weight: 340g (reference)

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# Desk Top Adapter, Single Output

## 90Watts Series (Combo type)

### FEATURES

- Active PFC Function
- RoHS Compliance
- Compact Type
- USA Wall Mount Plug 2pin, 3pin
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- High Operating Temperature 50°C
- 1 Year Warranty



- **Output Range: 15V~24V (90W Max.)**

| Input          | AC         | DC       | O/P Voltage | O/P Current | Watt |
|----------------|------------|----------|-------------|-------------|------|
| Input Range    | AC 90~264V | 11.5~16V | 15~24V      | 5.5A Max.   | 90W  |
| Frequency      | 50~60Hz    |          |             |             |      |
| Input Current  | ≤1.5A      | 10A Max. |             |             |      |
| Inrush Current | ≤90A       |          |             |             |      |
| Efficiency     | 85% Typ.   | 86% Typ. |             |             |      |
| Hold Up Time   | ≥8.3mS     |          |             |             |      |
| Turn On Time   | ≤3s        |          |             |             |      |

- AC Plug: IEC320 C8 Available
- Inrush Current: 60A Maximum
- Line Regulation: ±1%
- Load Regulation: ±5% Typical
- Ripple & Noise: 350mV
- Safety Approvals: Meet UL60950
- Efficiency: 82% Typical
- MTBF: >30,000 Hours
- Over-Voltage Protective: Latch off
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Storage Humidity: 5%~95%
- Case Dimensions: L140.5xW75.5xH21(mm)
- Weight: 450g (reference)

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# Desk Top Adapter, Single Output

## 120Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 12V~56V (110~120W Max.)**

| Item       | Input Range                           | O/P Voltage | O/P Current | Watt   |
|------------|---------------------------------------|-------------|-------------|--------|
| AB10812XXX | AC<br>90~264V<br>47~63Hz<br>1.6A Max. | 12.0V       | 9.0A        | 108.0W |
| AB12015XXX |                                       | 15.0V       | 8.0A        | 120.0W |
| AB12016XXX |                                       | 16.0V       | 7.5A        | 120.0W |
| AB12018XXX |                                       | 18.0V       | 6.6A        | 118.8W |
| AB12019XXX |                                       | 19.0V       | 6.3A        | 119.7W |
| AB12020XXX |                                       | 20.0V       | 6.0A        | 120.0W |
| AB12024XXX |                                       | 24.0V       | 5.0A        | 120.0W |
| AB12044XXX |                                       | 44.0V       | 2.7A        | 118.8W |
| AB12048XXX |                                       | 48.0V       | 2.5A        | 120.0W |
| AB12056XXX |                                       | 56.0V       | 2.15A       | 120.4W |

- AC Plug: IEC320 C6, C14 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L168xW66xH39(mm)
- Weight: 590g (reference)

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# Desk Top Adapter, Single Output

## 120~150Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 12V~17V (120~130W Max.)  
& 18V~24V (135~150W Max.)**

| Item       | Input Range                        | O/P Voltage | O/P Current | Watt     |
|------------|------------------------------------|-------------|-------------|----------|
| AC06012XXX | AC 90~264V<br>47~63Hz<br>2.5A Max. | 12V         | 10~7.6A     | 120~130W |
| AC06013XXX |                                    | 13V         |             |          |
| AC06014XXX |                                    | 14V         |             |          |
| AC06015XXX |                                    | 15V         |             |          |
| AC06016XXX |                                    | 16V         |             |          |
| AC06017XXX |                                    | 17V         | 7.5~6.25A   | 135~150W |
| AC06018XXX |                                    | 18V         |             |          |
| AC06019XXX |                                    | 19V         |             |          |
| AC06020XXX |                                    | 20V         |             |          |
| AC06021XXX |                                    | 21V         |             |          |
| AC06022XXX |                                    | 22V         |             |          |
| AC06024XXX |                                    | 24V         |             |          |

- AC Plug: IEC320 C6, C14 Available
- Inrush Current: 100A Maximum
- Line Regulation: 2% Maximum
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 1.5% Typical
- Safety Approvals: UL/CUL/TUV/CB/BSMI/CEC/MEPS/CE
- Efficiency: 85% Typical
- MTBF: 40,000 Hours
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L160xW65xH48.5(mm)

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# Desk Top Adapter, Single Output

## 200Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/E
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 12V~48V (180~200W Max.)**

| Item       | Input Range                           | O/P Voltage | O/P Current | Watt |
|------------|---------------------------------------|-------------|-------------|------|
| AB19212XXX | AC<br>90~264V<br>47~63Hz<br>2.8A Max. | 12.0V       | 16.0A       | 192W |
| AB20018XXX |                                       | 18.0V       | 11.0A       | 200W |
| AB20019XXX |                                       | 19.0V       | 10.5A       | 200W |
| AB20020XXX |                                       | 20.0V       | 10.0A       | 200W |
| AB20024XXX |                                       | 24.0V       | 8.3A        | 200W |
| AB20048XXX |                                       | 48.0V       | 4.2A        | 200W |

- AC Plug: IEC320 C6, C14 Available
- Load Regulation:  $\pm 5\%$  Typical
- Ripple: 1~2%V p-p Max. for Output Voltage @ Full Load
- Safety Approvals: UL/cUL/CB/FCC/PSE/BSMI/LPS and Complies EMI/EMS
- Efficiency: Meet Energy Star Level V & ERP Stage 2
- EMI Conduction & Radiation: Compliance to EN55022 Class B
- Harmonic Current: Compliance to EN61000-3-2,3
- EMS Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11
- MTBF: 50,000 Calculated Hours at 25°C, by MIL-HDBK-217F
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~80°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L183xW81xH42(mm); L203xW81xH42(mm)-Switch type
- Weight: 850g (reference)

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# Desk Top Adapter, Dual Output

## 25~29Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- Output Range: 5V & 12V (29Watts Max.)

| Vo       | Load |       |       | Regulation |      | Tolerance | Ripple & Noise |
|----------|------|-------|-------|------------|------|-----------|----------------|
|          | Min. | Rated | Surge | Line       | Load |           |                |
| Vo1 +5V  | 0.5A | 1.5A  | ---   | 1.0%       | 5.0% | +/-5.0%   | 50mV           |
| Vo2 +12V | 0.5A | 1.5A  | ---   | 1.0%       | 5.0% | +/-5.0%   | 100mV          |
| Vo1 +5V  | 0.5A | 3.0A  | ---   | 1.0%       | 5.0% | +/-5.0%   | 50mV           |
| Vo2 +12V | 0.5A | 1.0A  | ---   | 1.0%       | 5.0% | +/-5.0%   | 100mV          |
| Vo1 +5V  | 0.5A | 1.5A  | ---   | 1.0%       | 5.0% | +/-5.0%   | 50mV           |
| Vo2 +12V | 0.5A | 1.8A  | ---   | 1.0%       | 5.0% | +/-5.0%   | 100mV          |

- AC Plug: IEC320 C8, C6, C14 Available
- Input Voltage: AC90~264V
- Input Frequency: 47~63Hz
- Input Current: 1.0A Maximum
- Inrush Current: 50A Maximum
- Safety Approvals: UL/CUL/TUV/CB/BSMI/PSE/CE
- Efficiency: 76% Typical
- MTBF: 40,000 Hours
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L100xW56xH33(mm)
- Weight: 270g (reference)

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# Desk Top Adapter, Triple Output

## 43Watts Series

### FEATURES

- GREEN MODE
- Compact size & low profile
- Universal Input Range: 90~264VAC
- USA/Europe/UK/Australia AC plugs Available
- Regulated Output with Low Ripple Noise
- Meets Safety Agency Requirements & Complies EMI/EMS
- Private Label Marking Available
- Modified and Custom Designs Available
- 1 Year Warranty



- **Output Range: 5V/12V/-12V (43Watts Max.) & 5V/15V/-15V (43Watts Max.)**

| Vo       | Load |       |       | Regulation |      | Tolerance | Ripple & Noise |
|----------|------|-------|-------|------------|------|-----------|----------------|
|          | Min. | Rated | Surge | Line       | Load |           |                |
| Vo1 +5V  | 0.3A | 5.0A  | ---   | 1.0%       | 3.0% | +/-4.0%   | 50mV           |
| Vo2 +12V | 0.2A | 1.2A  | 2.5A  | 1.0%       | 3.0% | +/-5.0%   | 120mV          |
| Vo3 -12V | 0.0A | 0.3A  | ---   | 1.0%       | 5.0% | +10/-5.0% | 120mV          |
| Vo1 +5V  | 0.3A | 1.8A  | 4.5A  | 1.0%       | 3.0% | +/-3.0%   | 50mV           |
| Vo2 +15V | 0.2A | 2.0A  | 2.4A  | 1.0%       | 5.0% | +10/-5.0% | 150mV          |
| Vo3 -15V | 0.0A | 0.3A  | ---   | 1.0%       | 5.0% | +10/-5.0% | 200mV          |

- AC Plug: IEC320 C8, C6, C14 Available
- Input Voltage: AC90~264V
- Input Frequency: 47~63Hz
- Input Current: 1.5A Maximum
- Inrush Current: 30A Maximum
- Safety Approvals: UL/CUL/TUV/CB/BSMI/CE
- Efficiency: 75% Typical
- MTBF: 40,000 Hours
- Over-Voltage Protective: Auto Recovery
- Short-Circuit Protective: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Cooling: Natural Convection Cooling
- Case Dimensions: L100xW56xH33(mm)
- Weight: 310g (reference)

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# DC/DC Desk Top Adapter, Single Output

## 30Watts Series

### FEATURES

- Compact size & low profile
- Wide Input Range: 11~16VDC
- RoHS Compliance
- Input Voltage Protection Installation
- Over Current Protective Installation
- Over Temperature Protection Installation
- Short-circuit Protective Installation
- Protection Type: Auto-Recovery
- 100% Burn-In
- LED Indication



- Output Range: 8V~12V (30W Max.)

| Item       | Input Range | Input Current | O/P Voltage | O/P Current | Watt     |
|------------|-------------|---------------|-------------|-------------|----------|
| DA03008XXX | 11~16Vdc    | 5A Max.       | 8V          | 3A Max.     | 30W Max. |
| DA03009XXX |             |               | 9V          |             |          |
| DA03010XXX |             |               | 10V         |             |          |
| DA03011XXX |             |               | 11V         |             |          |
| DA03012XXX |             |               | 12V         |             |          |

- DC Input: Cigarette Lighter with UL1185 DC Cable
- Inrush Current: No Damage to relative components
- Line Regulation: 1% Maximum
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 120mV
- Safety Approvals: UL/CUL UL60950, CE, e1, FCC
- Efficiency: 85% Min. Nominal input
- MTBF: >30,000 Hours
- Over Current protection: Auto Recovery
- Over Temperature Protection: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Storage Humidity: 5%~95%
- Case Dimensions: L105xW40xH26.5(mm)
- Weight: 220g (reference)

### MA Electronics Pte Ltd

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# DC/DC Desk Top Adapter, Single Output

## 41~72Watts Series

### FEATURES

- Compact size & low profile
- Wide Input Range: 11~36VDC
- RoHS Compliance
- Input Voltage Protection Installation
- Over Current Protective Installation
- Over Temperature Protection Installation
- Short-circuit Protective Installation
- Protection Type: Auto-Recovery
- 100% Burn-In
- LED Indication



- Output Range: 10.25V/4A (41W Max.) & 5~12V (72W Max.)

| Item       | Input Range | Input Current | O/P Voltage | O/P Current | Watt     |
|------------|-------------|---------------|-------------|-------------|----------|
| DA04110XXX | 11-36V      | 6A Max.       | 10.25V      | 4A Max.     | 41W Max. |
| DA07205XXX |             |               | 5.0V        | 6A Max.     | 72W Max. |
| DA07206XXX |             |               | 6.0V        |             |          |
| DA07207XXX |             |               | 7.0V        |             |          |
| DA07208XXX |             |               | 8.0V        |             |          |
| DA07209XXX |             |               | 9.0V        |             |          |
| DA07210XXX |             |               | 10.0V       |             |          |
| DA07211XXX |             |               | 11.0V       |             |          |
| DA07212XXX |             |               | 12.0V       |             |          |

- DC Input: Cigarette Lighter with UL1185 DC Cable
- Inrush Current: No Damage to relative components
- Line Regulation: 1% Maximum
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 150mV
- Safety Approvals: FCC
- Efficiency: 80% Min. Nominal input
- MTBF: >30,000 Hours
- Over Current protection: Auto Recovery
- Over Temperature Protection: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Storage Humidity: 5%~95%
- Case Dimensions: L105xW40xH26.5(mm)
- Weight: 220g (reference)

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# DC/DC Desk Top Adapter, Single Output

## 75Watts Series

### FEATURES

- Compact size & low profile
- Wide Input Range: 11~16VDC
- RoHS Compliance
- Input Voltage Protection Installation
- Over Current Protective Installation
- Over Temperature Protection Installation
- Short-circuit Protective Installation
- Protection Type: Auto-Recovery
- 100% Burn-In
- LED Indication



- Output Range: 15~24V (75W Max.)

| Item       | Input Range | Input Current | O/P Voltage | O/P Current | Watt     |
|------------|-------------|---------------|-------------|-------------|----------|
| DA07515XXX | 11-16V      | 7A Max.       | 15V         | 4A Max.     | 75W Max. |
| DA07516XXX |             |               | 16V         |             |          |
| DA07517XXX |             |               | 17V         |             |          |
| DA07518XXX |             |               | 18V         |             |          |
| DA07519XXX |             |               | 19V         |             |          |
| DA07520XXX |             |               | 20V         |             |          |
| DA07521XXX |             |               | 21V         |             |          |
| DA07522XXX |             |               | 22V         |             |          |
| DA07523XXX |             |               | 23V         |             |          |
| DA07524XXX |             |               | 24V         |             |          |

- DC Input: Cigarette Lighter with UL1185 DC Cable
- Inrush Current: No Damage to relative components
- Line Regulation: 1% Maximum
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 200mV
- Safety Approvals: CE
- Efficiency: 85% Min. Nominal input
- MTBF: >30,000 Hours
- Over Current protection: Auto Recovery
- Over Temperature Protection: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Storage Humidity: 5%~95%
- Case Dimensions: L105xW40xH26.5(mm)
- Weight: 220g (reference)

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# DC/DC Desk Top Adapter, Single Output

## 90Watts Series (Slim & Compact Size)

### FEATURES

- Compact size & low profile
- Wide Input Range: 11~16VDC
- Cigar or Auto/Air Input
- With USB Port (+5V) Output (0.8A Max.)
- RoHS Compliance
- Input Voltage Protection Installation
- Over Current Protective Installation
- Over Temperature Protection Installation
- Short-circuit Protective Installation
- Protection Type: Auto-Recovery
- 100% Burn-In
- LED Indication



- Output Range: 16~24V (90W Max.)

| Item       | Input Range | Input Current | O/P Voltage | O/P Current | Watt |
|------------|-------------|---------------|-------------|-------------|------|
| DA09016XXX | 11-16V      | 10A Max.      | 16V         | 5.62A       | 90W  |
| DA09019XXX |             |               | 19V         | 4.73A       | 90W  |
| DA09020XXX |             |               | 20V         | 4.50A       | 90W  |
| DA09024XXX |             |               | 24V         | 3.75A       | 90W  |

- DC Input: Cigarette Lighter with UL1185 DC Cable
- Inrush Current: No Damage to relative components
- Line Regulation: 1% Maximum
- Load Regulation:  $\pm 5\%$  Typical
- Ripple & Noise: 200mV
- Safety Approvals: e1, CE
- Efficiency: 86% Min. Nominal input
- MTBF: >30,000 Hours
- Over Current protection: Auto Recovery
- Over Temperature Protection: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Storage Humidity: 5%~95%
- Case Dimensions: L105.9xW51.5xH18.4(mm)
- Weight: 220g (reference)

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# DC/DC Desk Top Adapter, Single Output

## 120Watts Series

### FEATURES

- Compact size & low profile
  - Wide Input Range: 11~16VDC
  - RoHS Compliance
  - Input Voltage Protection Installation
  - Over Current Protective Installation
  - Over Temperature Protection Installation
  - Short-circuit Protective Installation
  - Protection Type: Auto-Recovery
  - 100% Burn-In
  - LED Indication
- 
- Output Range: 16~24V (120W Max.)



| Item       | Input Range | Input Current | O/P Voltage | O/P Current | Watt |
|------------|-------------|---------------|-------------|-------------|------|
| DA12016XXX | 11-16V      | 12A Max.      | 16V         | 7.0A        | 120W |
| DA12018XXX |             |               | 18V         | 6.7A        | 120W |
| DA12019XXX |             |               | 19V         | 6.3A        | 120W |
| DA12020XXX |             |               | 20V         | 6.0A        | 120W |
| DA12024XXX |             |               | 24V         | 5.0A        | 120W |

- DC Input: Cigarette Lighter with UL1185 DC Cable
- Inrush Current: No Damage to relative components
- Line Regulation:  $\pm 2\%$
- Load Regulation:  $\pm 5\%$
- Ripple & Noise: 300mV
- Safety Approvals: e1
- Efficiency: 87% Min. Nominal input
- MTBF: >30,000 Hours
- Over Current protection: Auto Recovery
- Over Temperature Protection: Auto Recovery
- Operating Temperature 0~40°C
- Storage Temperature: -20~85°C
- Storage Humidity: 5%~95%
- Case Dimensions: L114.7xW55.6xH35(mm)
- Weight: 300g (reference)

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