



## AC-DC, DC-DC Converters

### AC-DC Medical

MSC Series 40W and MSC-E1 40W  
MTC 15W and MTC-E1 15W

- Switching Power Modules for PCB Mounting
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Noise
- Isolation Class II
- CE, CB, UL, cUL, TUV Approvals, Medical Safety Approvals (see specifications)
- 3-Years Product Warranty



### AC-DC

#### AEC60 50W ~ 60W

- Switching Power Module for PCB Mountable
- Universal Input: 85-265 VAC
- Single Output
- 5 VDC to 48 VDC Output
- -40°C Starting
- 4000 VAC Input to Output Isolation
- CE, UL, Approval (see specifications)
- 2-Years Product Warranty

#### ALC 6.6W ~ 9W

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Single and Dual Output
- Low Ripple and Low Noise
- Isolation Class II
- Maximum No-Load Watts < 0.3W
- CE, UL, Approval
- 2-Years Product Warranty

#### AFC20 11.88W ~ 20W

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output and Low Ripple and Low Noise
- Isolation Class II
- Low Standby <0.5W
- Small Size as AFC 10Watt with 20Watt Higher Power
- Screw Terminal For Optional
- CE, UL, Approval
- 2-Years Product Warranty

#### ANC A 15W and ANC A-E1 15W

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Low Noise
- Screw Terminal For Optional
- CE, UL, TUV Approval
- 2-Years Product Warranty

#### AFC 10W and AFC-E1 10W

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Low Noise
- Isolation Class II
- Small Size 2.06 x 1.07 x 0.93 Inches
- Screw Terminal For Optional
- CE, CB, UL, Approval
- 2-Years Product Warranty

#### AOC 3.5W ~ 4W and AOCH 3.5W ~ 4W

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Single and Dual Output
- Low Ripple and Low Noise
- Isolation Class II
- Maximum No-Load Watts < 0.3W
- CE, UL, Approval
- 2-Years Product Warranty

**AHC08 6.6W ~ 9W**

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Single and Dual Regulated Output
- Low Ripple and Low Noise
- Isolation Class II
- Maximum No-Load Watts < 0.3W
- Small Size as AHC 5Watt with 8Watt Higher Power
- Screw Terminal For Optional
- CE, UL, Approval
- 2-Years Product Warranty

**APC 5W**

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Low Noise
- Screw Terminal For Optional
- CE, UL, TUV Approval
- 2-Years Product Warranty

**AHC 4 ~ 5.5W and AHC-E1 4 ~ 5.5W**

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Low Noise
- Isolation Class II
- Small Size 2.0 x 1.0 x 0.597 Inches
- Screw Terminal For Optional
- CE, UL, Approval
- 2-Years Product Warranty

**APC-E1 5W**

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Low Noise
- Screw Terminal For Optional
- CE, UL, TUV Approval
- 2-Years Product Warranty

**AIC 2.97W ~ 3W**

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Low Ripple and Low Noise
- Isolation Class II
- Maximum No-Load Watts < 0.3W
- CE, UL, Approval
- 2-Years Product Warranty

**ATC 10W and ATC-E1 8W ~ 10W**

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Noise
- Screw Terminal For Optional
- CE, UL, TUV Approval
- 2-Years Product Warranty

**AJC 26.4W ~ 40W**

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Low Noise
- Isolation Class II
- -40°C Starting
- Small Size as ASC 30Watt with 40Watt Higher Power
- Screw Terminal For Optional
- CE, UL, cUL Approval
- 2-Years Product Warranty

**ASC 20W ~ 30W**

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output and Low Ripple and Low Noise
- Isolation Class II
- -40°C Starting
- Screw Terminal For Optional
- CE, CB, UL, TUV Approval
- 2-Years Product Warranty

**AKC 14.85W ~ 20W**

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Low Noise
- Small Size But Higher Wattage
- Screw Terminal For Optional
- CE, UL, Approval
- 2-Years Product Warranty





**AES600, AES60U, AES60E and AES60D 50W ~ 60W**

- Open Frame, Enclosed, Din rail or U-bracket Switching Power Supply
- Universal Input: 85-265 VAC
- Single Output
- 5 VDC to 48 VDC Output
- 3000 VAC Input to Output Isolation
- 2-Year Product Warranty



**AQF1200, AQF120U, AQF120D and AQF120E 180W**

- Open Frame Switching Power Supply
- 180 Watt with 18CFM FAN
- High Efficiency up to 92%
- Universal Input: 90-264 VAC
- 12 VDC to 48 VDC Single Output
- With P.F.C. Function
- Free Air Convection
- Ultra Compact Size
- 2-Year Product Warranty

**AQF240E, AQF240D and AQF240U (U-bracket) 240W**

- Enclosed or U-bracket Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function, PF>0.95
- Free Air Convection
- High Efficiency up to 93%
- RoHS Compliant Design
- Ultra Compact Size
- 2-Year Product Warranty

**AQF360F, AQF360E and AQF360U (U-bracket) 360W**

- Enclosed Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function, PF>0.95
- Cooling by Built-in 12 VDC FAN
- 240W Convection without FAN
- Protections:
  - Over Load / Over Voltage
  - Over Temperature / Short Circuit
  - All by Auto-recovery
- Leakage Current <300µA
- High Power Density
- High Efficiency up to 93%
- RoHS Compliant Design
- Ultra Compact Size
- 2-Year Product Warranty



**AQF1000 up to 120W NEW**

- Open Frame Switching Power Supply
- 12V ~ 48V output
- Free Convection
- High Efficiency up to 92%
- Universal Input: 90-264VAC
- Low Ripple and Noise
- With P.F.C. Function >0.95, 50% Load >0.9
- Ultra Compact Size: approx 104mm x 52mm x 25mm
- 2-Years Product Warranty



## DC-DC

### SB1R5 1.5W

- PCB Mountable, Fully Encapsulated Plastic Case
- High Reliability
- Regulated Output
- Low Ripple and Noise
- 2-Year Product Warranty



### ZB15 9.9W-15W and ZA05 4W-6W

- PCB Mountable
- Low cost with High Reliability
- 2:1 and 4:1 (ZB15) Wide Input Range
- Regulated Output
- Low Ripple and Noise
- Remote ON/OFF Control (Optional) (ZB15)
- 2-Year Product Warranty

### SB03 3W-4W, SB05 4W-6W and SB08 6.6W-8W

- PCB Mountable
- High Reliability
- 2:1 and 4:1 (SB08, SB03) Wide Input Range
- Regulated Output
- Low Ripple and Noise
- 2-Year Product Warranty

### SF30 15W ~ 30W

- Power Module for PCB Mountable
- High Efficiency Up To 87%
- 4:1 Wide Input Range
- Six-sided Continuous Shield
- Standard Package
- Screw Terminal For Optional
- 2-Year Product Warranty



### SK30 10.8W ~ 30W and SK40 14.4W-40W

- Power Module for PCB Mountable
- High Efficiency Up To 87%
- 2:1 Input Range
- Six-sided Continuous Shield
- Standard Package
- Screw Terminal For Optional
- 2-Year Product Warranty

### SH05 4W-6W, SH08 8W and SH10 10W

- PCB Mountable
- High Efficiency and Reliability
- 2:1 Input Range (SH10) 4:1 Wide Input Range
- Regulated, Single and Dual Output
- Low Ripple and Noise
- 2-Year Product Warranty

### SR78-1000 1.5W ~ 15W

- SIP-Package Fits Existing TO-220 Footprint
- Pin Compatible with LMxx Linear Regulators
- Efficiency up to 96%, Non Isolated,
- No Need for Heatsinks
- Wide Input Operating (4.6V-36V)
- Non Standard Outputs Available as Specials Between 1.5V-15V
- Short Circuit Protection, Over-Current Protection and Over-Temperature protection
- UL94V-0 Package Material
- Meets EN55022 Class A Conducted Emissions& Radiated Emissions (Note 3)
- Meets EN55022 Class B Conducted Emissions& Radiated Emissions (Note 4)
- 2-Year Product Warranty



**ST15 9.9W ~ 15W and ST10 6.6W ~ 10W**

- Power Module for PCB Mountable
- 2:1 and 4:1 Wide Input Range
- Regulated Output
- Low Ripple and Noise
- Screw Terminal For Optional
- Remote ON/OFF Control (Optional)
- Standard 2" x 1" Package and Pinout
- CE, UL Approval
- 2-Year Product Warranty

**ST20 14.85W ~ 20W**

- Power Module for PCB Mountable
- 2:1 Input Range
- Synchronous Rectifier Topology
- Regulated Output
- Low Ripple and Noise
- Screw Terminal For Optional
- Remote ON/OFF Control (Optional)
- Standard 2" x 1" Package and Pinout
- CE, UL Approval
- 2-Year Product Warranty

**ST30 15W ~ 30W**

- PCB Mountable, Standard package and pinout
- Smaller Size with High Efficiency
- 2:1 Input Range
- Regulated Output
- Low Ripple and Noise
- Screw Terminal For Optional
- Remote ON/OFF Control (Optional)
- Operating Temperature: -40°C ~ 85°C (with derating)
- Small Size: approx 25mm x 25mm x 11mm
- 2-Year Product Warranty

**SW20, SW15 11.55W ~ 20W**

- PCB Mountable
- Smallest Dimensions in the Market
- Smaller Dimension with High Efficiency
- 2:1 Input Range
- Regulated Output
- Low Ripple and Noise
- Screw Terminal For Optional
- Remote ON/OFF Control (Optional)
- Operating Temperature: -40°C ~ 85°C (with derating)
- Small Size: approx 25mm x 25mm x 11mm
- 2-Year Product Warranty

**SU40 40W**

- PCB Mountable
- 2:1 Input Range
- Regulated Output
- Low Ripple and Noise
- Screw Terminal For Optional
- Synchronous-rectifier Topologies
- Vout Trim and ON/OFF Control Function
- 2-Year Product Warranty

**SU20 13.2W ~ 20W**

- PCB Mountable
- 2:1 and 4:1 Wide Input Range
- Regulated Output
- Low Ripple and Noise
- Screw Terminal For Optional
- Vout Trim and ON/OFF Control Function
- 2-Year Product Warranty

**LED Power**

**ALF-150 125W ~ 150W and ALF-240 192W ~ 240W**

- IP65 Design for Indoor or Outdoor LED Installations
- Universal Input: 100-240 VAC (Up to 277 VAC)
- Built-in Active PFC Function, PF>0.95
- Free Air Convection
- High Reliability
- Constant Current and Constant Voltage
- Output Voltage and Constant Current Level adjustable with Internal Potential Meter
- LED Power Application
- 2-Years Product Warranty



**ZQF-100 100W**

- Open Frame LED Power Supply
- Universal Input: 100-240 VAC (Up to 277 VAC)
- 3000 VAC Input to Output Isolation
- Built-in active PFC function, PF>0.95
- Low Cost and High reliability
- Constant Current and Constant Voltage
- LED Power Application
- 2-Years Product Warranty

The Manufacturer reserves the right to modify product specification and data stated herein without prior notice.