2017

CONTECH

Division of Calex Mfg.

DC/DC Converters and AC/DC Power Supplies



www.ConTech-us.com
877-302-4411 (Toll Free)
925-609-1193
sales@ConTech-us.com
2401 Stanwell Dr.
Concord CA 94520

RoHS Compliant
ISO9001:2008 Certified

2017

CONTECH

Division of Calex Mfg.

The ConTech product line offers a wide range of DC/DC converters up to and including 75 Watts of output power. The DC/DC product line offers a large variation of case geometries, input ranges, and outputs to meet a wide range of power and space requirements. The AC/DC power supplies offered by ConTech cover an output power range from 2 to 150 Watts. The AC/DC power supplies have a wide input range and are offered in single, dual, and triple output configurations. The available case geometries are PCB mount, Chassis mount, and Din-Rail mount.

ConTech products are manufactured to stringent quality standards. ISO9001-2008 certification is utilized and maintained to comply with the quality and reliability requirements of manufacturing companies throughout the world. All ConTech products are RoHS compliant.

Service and Warranty: ConTech offers cost competitive power conversion solutions with lead time of stock to 6 weeks. Every ConTech power conversion module is covered by a 2-year Warranty.

See ConTech-us.com for complete model selections, datasheets and application notes. Specifications are subject to change without notice.

To order ConTech parts contact us at 877-372-4411 / 925-609-1193 or sales@ConTech-us.com

ConTech units are RoHS Compliant.
See website for complete
RoHS Compliance Statement.

ISO 9001-2008 Certified

Railway Application DC/DC Converters

UL60950
EN50155
Recognized

10 WATT RQH SERIES

Outputs: 5 ,12, 15, 24 VDC
Inputs 24(9-36) VDC, 48(18-75) OR 110(40-160)VDC
2250 VDC Isolation
Package: 2" X 1"

50 WATT RQF SERIES

Outputs: 5 ,12, 15, 24 VDC
Inputs 72(43-101) VDC, 110(66-160)VDC
3000 VAC Isolation
Package: 2.28" X 1.45" Quarter Brick





20 WATT RQT SERIES

Outputs: 5 ,12,15, 24 VDC
Inputs 24(9-36) VDC, 48(18-75) OR 110(40-160)VDC
2250 VDC Isolation
Package: 2" X 1"

75 WATT RQS SERIES

Outputs: 5 ,12, 15, 24 VDC
Inputs 72(43-101) VDC, 110(66-160)VDC
3000 VAC Isolation
Package: 2.28" X 1.45" Quarter Brick

Chassis Mount DC/DC Converters

UL60950
Recognized

- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 5.1, 12, 24, 48 VDC
- 2500 VDC Isolation
- Remote On/Off
- Din Mount (Optional)
- UL60950



20 Watt DRT

- Efficiency up to 91%
- Switching Frequency 285 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- Remote On/Off
- Optional Din Mount (DIN-01)

Size: 3.78L x 2.13W x 0.92H

40 Watt DRF

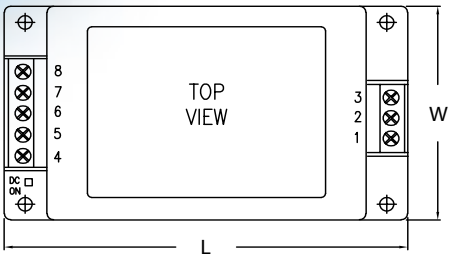
- Efficiency up to 92%
- Switching Frequency 285 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- Optional Din Mount (DIN-02)

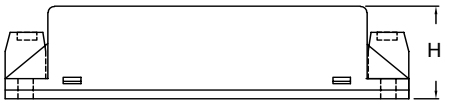
Size: 4.41L x 2.51W x 1.01H

60 Watt DRS

- Efficiency up to 92%
- Switching Frequency 210 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- Optional Din Mount (DIN-03)

Size: 4.41L x 2.67W x1.50H



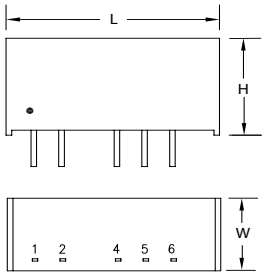


1 Watt SPH & SPX Single and Dual Series



- Input Range ±10%
- 1000 VDC Isolation
- Switching Frequency 100 kHz Typ.
- CSA60950

Case: SIP Package
Size: 0.77L x 0.24W x 0.40H (5 & 12V Input)
0.77L x 0.28W x 0.40H (15 & 24V Input)
Material: Non-Conductive Black Plastic



SPH Series

- Input Voltage 5,12,15 & 24 VDC
- Output Voltage 3.3, 5, 6, 7, 9, 12, 15, ±5, ±9, ±12, & ±15 VDC
- Efficiency up to 81%
- Temperature Range -40ºC to +85ºC Ambient

SPX Series

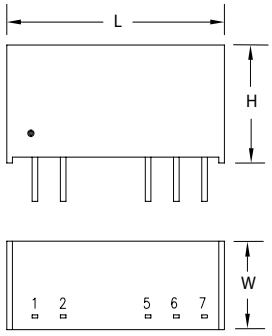
- Input Voltage 5, 12, & 24 VDC
- Output Voltage 5, 9, 12, 15, ±5, ±9, ±12, & ±15 VDC
- Efficiency up to 88%
- Temperature Range -40ºC to +95ºC Ambient

1 Watt SPV Single & SPF Single and Dual Series
2 Watt SPK Single and Dual Series



- Input Voltage 5,12, & 24 VDC
- Input Range ±10%

Case: SIP Package
Size: 0.77L x 0.24W x 0.40H (5 & 12V Input)
0.77L x 0.28W x 0.40H (24V Input)
0.77L x 0.30W x 0.40H (SPK Series)
Material: Non-Conductive Black Plastic



SPV Series

- Output Voltage 5, 9, 12, & 15 VDC
- 3000 VDC Isolation
- Efficiency up to 88%
- Switching Frequency 100 kHz Typ.
- Temperature Range -40ºC to +95ºC Ambient
- CSA60950

SPF Series

- Output Voltage 3.3, 5, 9, 12, 15, ±5, ±9, ±12, & ±15 VDC
- 3000 VDC Isolation
- Efficiency up to 81%
- Switching Frequency 100 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient

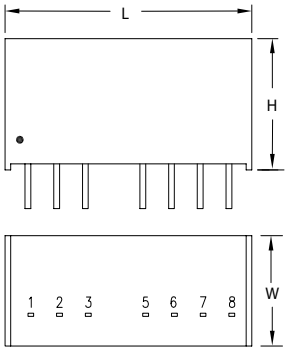
SPK Series

- Output Voltage 3.3, 5, 12, 15, ±5, ±12, & ±15 VDC
- 1000 VDC Isolation
- Efficiency up to 83%
- Switching Frequency 80 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient

1 Watt SPM Single and Dual Series
2 Watt SPL Single and Dual Series
SPR Single Series



Case: SIP Package
Material: Non-Conductive Black Plastic



SPM Series

- Input Voltage 5 & 12 VDC
- Input Range ±10%
- Output Voltage 5, 12, 15, ±5, ±12, & ±15 VDC
- 3000 VAC Isolation
- Efficiency up to 75%
- Switching Frequency 80 kHz Typ.
- Temperature Range -25ºC to +85ºC Ambient
- UL60950 & UL60601

Size: 0.87L x 0.30W x 0.49H

SPR Series

- Input Voltage 5, 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 3.3, 5, & 12 VDC
- 1000 VDC Isolation
- Efficiency up to 81%
- Switching Frequency 300 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- Remote On/Off
- CSA60950

Size: 0.86L x 0.37W x 0.44H

SPL Series

- Input Voltage 12, 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 12, 15, ±5, ±12 & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 82%
- Switching Frequency 300 kHz Typ.
- Temperature Range -40ºC to +90ºC Ambient
- Remote On/Off
- CSA60950

Size: 0.86L x 0.37W x 0.44H

See Datasheet for pin configuration.
All case drawings are inches (mm).

Specifications subject to change without notice.

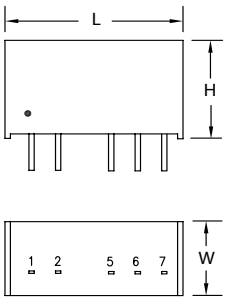
See ConTech Website for Complete Model Selection and Datasheets
www.ConTech-us.com

1 Watt SPB Single and Dual Series



- Input Voltage 5, 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 5, 12, 15, 24, ±12, & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 80%
- Switching Frequency 220 kHz Typ.
- Temperature Range -40ºC to +95ºC Ambient
- Compact SIP-6 Package
- CSA60950

Case: SIP-6 Package
Size: 0.67L x 0.30W x 0.43H
Material: Non-Conductive Black Plastic

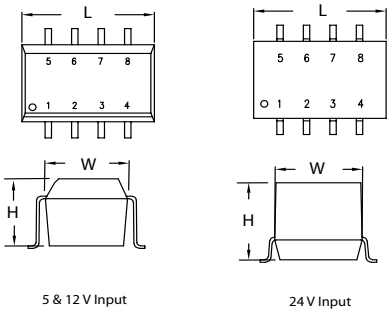


1 Watt SMA Single Series



- Input Voltage 5,12, & 24 VDC
- Input Range ±10%
- Output Voltage 3.3, 5, 9, 12, & 15 VDC
- 1000 VDC Isolation
- Efficiency up to 82%
- Switching Frequency 100 kHz Typ.
- Temperature Range -40ºC to +90ºC Ambient

Case: SMD Package
Size: 0.50L x 0.31W x 0.27H (5 & 12V Input)
0.50L x 0.33W x 0.31H (24V Input)
Material: Molded Non-Conductive Black Plastic

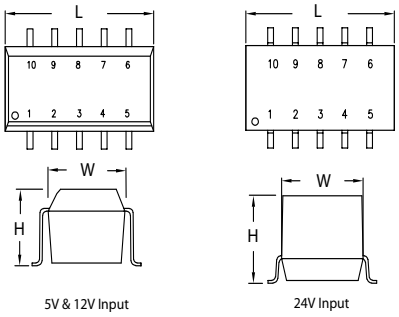


1 Watt SMB Dual Series

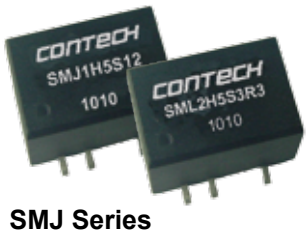


- Input Voltage 5,12, & 24 VDC
- Input Range ±10%
- Output Voltage ±5, ±9, ±12, & ±15 VDC
- 1000 VDC Isolation
- Efficiency up to 80%
- Switching Frequency 100 kHz Typ.
- Temperature Range -40ºC to +90ºC Ambient

Case: SMD Package
Size: 0.60L x 0.31W x 0.27H (5 & 12V Input)
0.60L x 0.33W x 0.31H (24V Input)
Material: Molded Non-Conductive Black Plastic



1 Watt SMJ Single and Dual Series
2 Watt SML Single and Dual Series



- Input Range ±10%
- 1500 VDC Isolation
- Efficiency up to 80%
- Switching Frequency 100 kHz Typ.
- Temperature Range -40ºC to +90ºC Ambient

Case: SMD Package
Material: Non-Conductive Black Plastic

SMJ Series

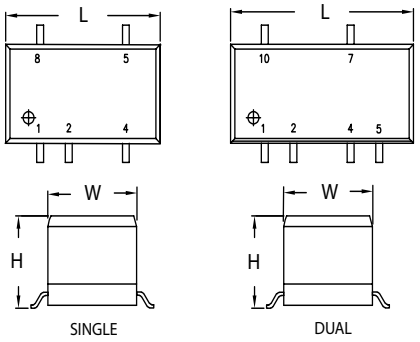
- Input Voltage 5, 12, 15, & 24 VDC
- Output Voltage 3.3, 5, 9, 12, 15, ±5, ±12, & ±15 VDC

Size: 0.54L x 0.33W x 0.28H (Single)
0.64L x 0.33W x 0.28H (Dual)

SML Series

- Input Voltage 5,12, & 24 VDC
- Output Voltage 3.3, 5, 12, ±5, ±12, & ±15 VDC

Size: 0.54L x 0.37W x 0.35H (Single)
0.64L x 0.37W x 0.35H (Dual)

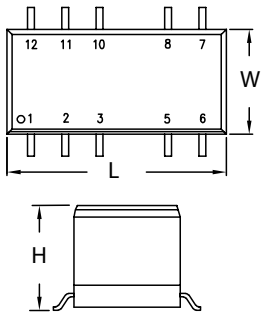


1 Watt SMH Single and Dual Series



- Input Voltage 5,12, & 24 VDC
- Input Range ±10%
- Output Voltage 3.3, 5, 12, 15, ±5, ±12, & ±15 VDC
- 3000 VDC Isolation
- Efficiency up to 81%
- Switching Frequency 100 kHz Typ.
- Temperature Range -40ºC to +90ºC Ambient

Case: SMD Case
Size: 0.64L x 0.31W x 0.30H
Material: Non-Conductive Black Plastic



See Datasheets for pin configuration.
All case drawings are inches (mm).

Specifications subject to change without notice.

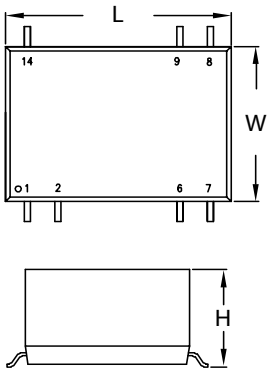
See ConTech Website for Complete Model Selection and Datasheets
www.ConTech-us.com

1 Watt SMX Single and Dual Series



- Input Voltage 5, 12, 24,& 48 VDC
- Input Range 2:1
- Output Voltage 5, 12, 15, ±12, & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 82%
- Switching Frequency 220 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- Remote On/Off
- CSA60950

Case: SMD Case
Size: 0.74L x 0.54W x 0.34H
Material: Non-Conductive Black Plastic

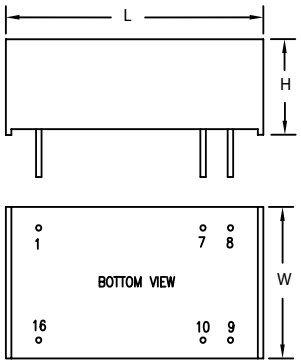


2 Watt DPN Single and Dual Series



- Input Voltage 5, 12, & 24 VDC
- Input Range ±10%
- Output Voltage 5, 12, 15, ±12, & ±15 VDC
- 4000 VAC Isolation
- Efficiency up to 75%
- Switching Frequency 80 kHz Typ.
- Temperature Range -25ºC to +80ºC Ambient
- UL60950 & UL60601

Case: DIP Package
Size: 0.94L x 0.53W x 0.34H
Material: Non-Conductive Black Plastic

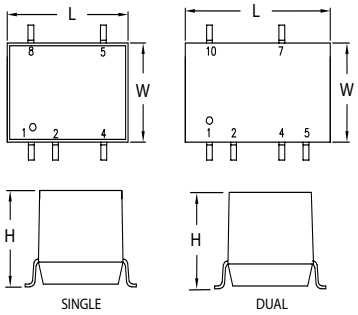


2 Watt SMK Single and Dual Series



- Input Voltage 5, 12, & 24 VDC
- Input Range ±10%
- Output Voltage 5, 12, ±5, ±12, & ±15 VDC
- 1000 VDC Isolation
- Efficiency up to 82%
- Switching Frequency 100 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient

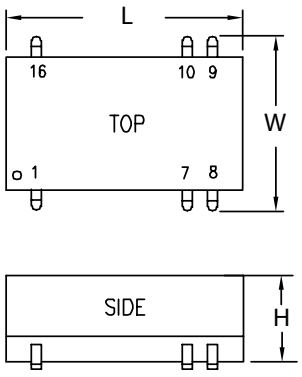
Case: SMD Package
Size: 0.50L x 0.37W x 0.34H (Single Output)
0.60L x 0.37W x 0.34H (Dual Output)
Material: Molded Non-Conductive Black Plastic



2 Watt SMP & SMN Single and Dual Series
3 Watt SMU Single and Dual Series



Case: SMD Case
Size: 0.94L x 0.54W x 0.35H
Material: Non-Conductive Black Plastic



SMP Series

- Input Voltage 5, 12, & 24 VDC
- Input Range ±10%
- Output Voltage 5, 12, 15, ±12, & ±15 VDC
- 4000 VAC Isolation
- Efficiency up to 75%
- Switching Frequency 80 kHz Typ. Ambient
- Temperature Range -25ºC to +80ºC
- UL60950 & UL60601

SMN Series

- Input Voltage 5, 12, 24, & 48 VDC
- Input Range 2:1
- Output Voltage 3.3, 5, 12, 15, ±5, ±12, & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 81%
- Switching Frequency 300 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- CSA60950

SMU Series

- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 12, 15, 24, ±5, ±12, & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 80%
- Remote On/Off
- Switching Frequency 350 kHz Typ.
- Temperature Range -40ºC to +80ºC Ambient
- CSA60950

See Datasheet for pin configuration.
All case drawings are inches (mm).

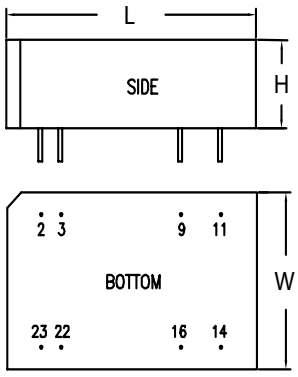
Specifications subject to change without notice.

2-3 Watt DPA & DPF Single and Dual Series



- 1500 VDC Isolation
- Efficiency up to 84%

Case: DIP Package
Size: 1.25L x 0.80W x 0.40H
Material: Non-Conductive Black Plastic



DPA Series

- Input Voltage 5, 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 3.3, 5, 12, 15, ±5, ±12, & ±15 VDC
- Switching Frequency 300 kHz Typ.
- Temperature Range -25C to +85ºC Ambient
- UL60950

DPF Series

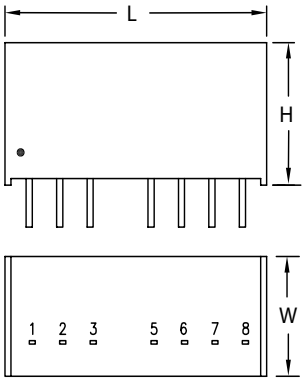
- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 12, 15, ±12, & ±15 VDC
- Switching Frequency 350 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- CSA60950

3 Watt SPS & SPQ Single and Dual Series



- Output Voltage 3.3, 5, 12, 15, ±5, ±12 & ±15 VDC
- 1600 VDC Isolation
- Remote On/Off
- Temperature Range -40ºC to +85ºC Ambient
- CSA60950

Case: SIP Package
Size:0.86L x 0.37W x 0.44H
Material: Non-Conductive Black Plastic



SPS Series

- Input Voltage 5, 12, 24 & 48 VDC
- Input Range 2:1
- Efficiency up to 83%
- Switching Frequency 300 kHz Typ.

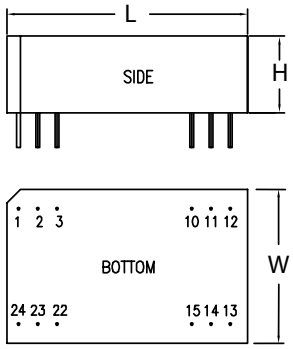
SPQ Series

- Input Voltage 12, 24 & 48 VDC
- Input Range 4:1
- Efficiency up to 81%
- Switching Frequency 350 kHz Typ.

3 Watt DPV, DPS & DPX Single and Dual Series



Case: DIP Package
Size:1.25L x 0.80W x 0.41H
Material: Non-Conductive Black Plastic



DPV Series

- Input Voltage 5, 12, & 24 VDC
- Input Range ±10%
- Output Voltage 5, 12, 15, ±12 & ±15 VDC
- 3000 VAC Isolation
- Efficiency up to 64%
- Switching Frequency 60 kHz Typ.
- Temperature Range -40ºC to +80ºC Ambient
- UL60950 & UL60601

DPS Series

- Input Voltage 5, 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 5, 12, 15, ±12 & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 81%
- Switching Frequency 330 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- CSA60950

DPX Series

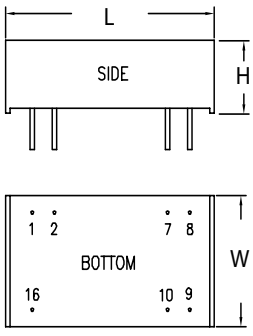
- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 12, 15, 24, ±5, ±12 & ±15 VDC
- 3000 VDC Isolation
- Efficiency up to 84%
- Switching Frequency 90kHz Min.
- Temperature Range -40ºC to +85ºC Ambient
- CSA60950

3 Watt DPU Single and Dual Series



- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 12, 15, 24, ±5, ±12 & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 80%
- Remote On/Off
- Switching Frequency 350 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- CSA60950

Case: DIP Package
Size: 0.94L x 0.54W x 0.31H
Material: Non-Conductive Black Plastic



See Datasheets for pin configuration.
All case drawings are inches (mm).

Specifications subject to change without notice.

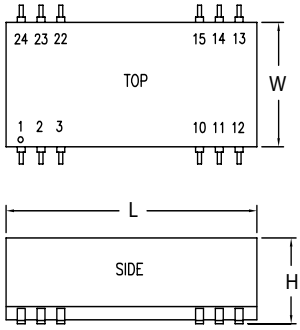
See ConTech Website for Complete Model Selection and Datasheets
www.ConTech-us.com

3 Watt SMS Single and Dual Series

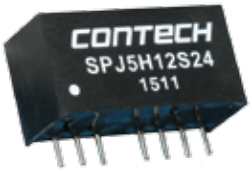


- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 3.3, 5, 12, 15, ±5, ±12, & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 83%
- Switching Frequency 300 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- CSA/UL60950

Case: SMD Case
Size: 1.27L x 0.58W x 0.40H
Material: Non-Conductive Black Plastic

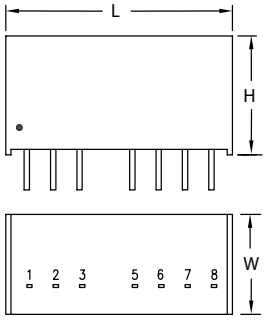


5 Watt SPJ Single and Dual Series



- Input Voltage 12, 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 12, 15, 24, ±12 & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 84%
- Switching Frequency 100 kHz Min..
- Temperature Range -40ºC to +75ºC Ambient
- Remote On/Off
- CSA60950

Case: SIP Package
Size:0.86L x 0.37W x 0.44H
Material: Non-Conductive Black Plastic

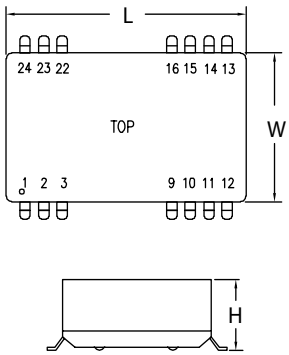


5 Watt SMZ Single and Dual Series



- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 3.3, 5, 12, 15, ±5, ±12 & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 85%
- Switching Frequency 260 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- Remote On/Off
- CSA60950

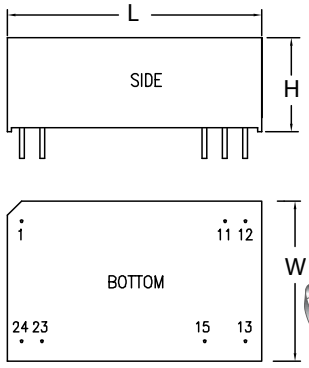
Case: SMD Package
Size: 1.31L x 0.81W x 0.40H
Material: Non-Conductive Black Plastic



5-6 Watt DPL Single and Dual Series
6 Watt DPZ Single and Dual Series



Case: DIP Package
Material: Non-Conductive Black Plastic



DPL Series

- Input Voltage 12, 24, & 48 VDC
- Input Range 2:1
- Output Voltage 5, 12, ±12, & ±15 VDC
- 4000 VAC Isolation
- Efficiency up to 80%
- Switching Frequency 150 kHz Typ.
- Temperature Range -40ºC to +75ºC Ambient
- Size: 1.25L x 0.80W x 0.47H
- UL60950 & UL60601

DPZ Series

- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 12, 15, 24, ±5, ±12 & ±15 VDC
- 3000 VDC Isolation
- Efficiency up to 84%
- Switching Frequency 330 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- Size: 1.25L x 0.80W x 0.40H
- CSA60950

See Datasheet for pin configuration.
All case drawings are inches (mm).

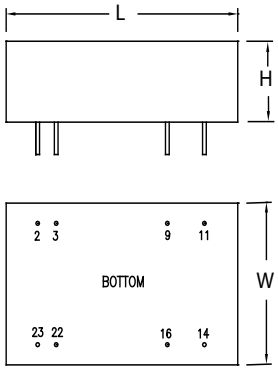
Specifications subject to change without notice.

5-6 Watt DMJ & DMR Single and Dual Series



- Output Voltage 3.3, 5, 12, 15, ±5, ±12 & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 86%
- CSA60950

Case: DIP Package
Size: 1.25L x 0.80W x 0.40H
Material: Metal with Non-Conductive Base Plate



DMJ Series

- Input Voltage 5,12, 24, & 48 VDC
- Input Range 2:1
- Switching Frequency 300 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient

DMR Series

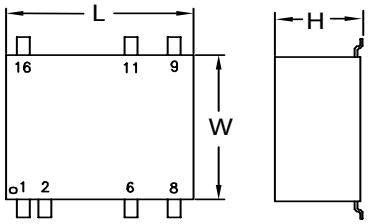
- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Switching Frequency 340 kHz Typ.
- Temperature Range -25ºC to +85ºC Ambient

6 Watt SMQ Single and Dual Series



- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 12, 15, 24, ±5, ±12 & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 83%
- Switching Frequency 330 kHz Typ.
- Temperature Range -40ºC to +80ºC Ambient
- CSA60950

Case: SMD Package
Size: 0.87L x 0.80W x 0.40H
Material: Non-Conductive Black Plastic

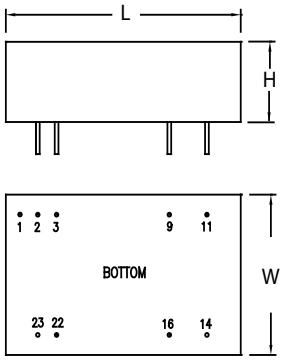


10 Watt DMS & DMT Single and Dual Series



- 1500 VDC Isolation
- CSA60950

Case: DIP Package
Size: 1.25L x 0.80W x 0.40H
Material: Metal with Non-Conductive Base Plate



DMS Series

- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 2.5, 3.3, 5, 5.1, 12, 15, ±12, & ±15 VDC
- Efficiency up to 88%
- Switching Frequency 400 kHz Typ.
- Temperature Range -40ºC to +75ºC Ambient

DMT Series

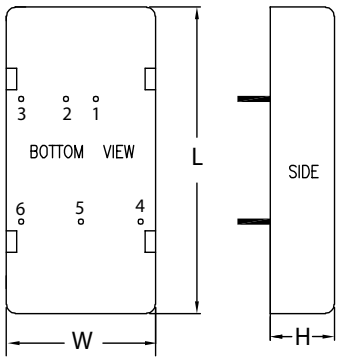
- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 5.1, 12, 15, ±12, & ±15 VDC
- Efficiency up to 87%
- Switching Frequency 330 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient

10 Watt TMR Single and Dual Series



- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 5, 12, ±12 & ±15 VDC
- Efficiency up to 82%
- 4200 VAC Isolation
- Switching Frequency 150 kHz Typ.
- Temperature Range -40ºC to +75ºC Ambient
- UL60950 & UL60601

Case: 2" x 1" Package
Material: Non-Conductive Black Plastic



See Datasheets for pin configuration.
All case drawings are inches (mm).

Specifications subject to change without notice.

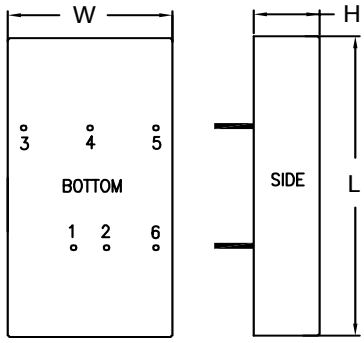
See ConTech Website for Complete Model Selection and Datasheets
www.ConTech-us.com

10 Watt TMD Single and Dual Series
12 Watt TMK Single and Dual Series



- 1500 VDC Isolation
- Temperature Range -40ºC to +85ºC Ambient
- UL60950

Case: 2" x 1" Case
Size:2.0L x 1.0W x 0.40H
Material: Metal with Non-Conductive Base Plate



TMD Series

- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 3.3, 5, 12, 15, 24, ±5, ±12, & ±15 VDC
- Efficiency up to 83%
- Switching Frequency 300 kHz Typ.

TMK Series

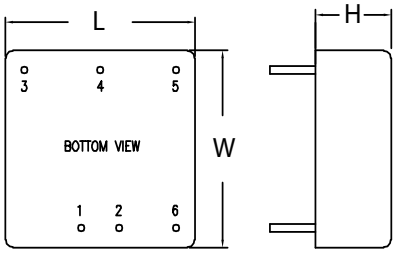
- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 12, 15, ±5, ±12, & ±15 VDC
- Efficiency up to 84%
- Switching Frequency 350 kHz Typ.

10 Watt QMH Single and Dual Series
20 Watt QMJ Single and Dual Series



- Input Voltage 24 & 48 VDC
- Input Range 4:1
- 1500 VDC Isolation
- Remote On/Off
- Heatsink (Optional)
- Six Sided Shielded
- CSA60950

Case: 1" x 1" Case
Size:1.0L x 1.0W x 0.40H
Material: Metal with Non-Conductive Base Plate



QMH Series

- Output Voltage 3.3, 5, 5.1, 12, 15, ±5, ±12, & ±15 VDC
- Efficiency up to 87%
- Switching Frequency 450 kHz Typ.
- Temperature Range -40ºC to +80ºC Ambient

QMJ Series

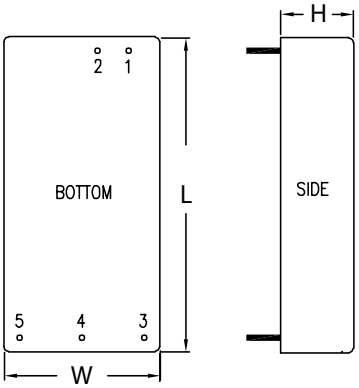
- Output Voltage 3.3, 5, 12, 15, 24, ±12, & ±15 VDC
- Efficiency up to 89%
- Switching Frequency 330 kHz Typ.
- Temperature Range -40ºC to +85ºC Ambient
- Output Trim

10 Watt RQH Single Series
20 Watt RQT Single Series



- Designed specifically for Railway Applications
- Input Voltage 24 (9-36)VDC , 48 (18-75) VDC, 110 (40-160)VDC
- Input Range 4:1
- Output Voltage 5, 12, 15, 24 VDC
- Efficiency up to 88%
- 3000 VAC Isolation
- Switching Frequency 280 kHz Typ.
- Temperature Range -40ºC to +95ºC Ambient (RQH)
- Temperature Range -40ºC to +88ºC Ambient (RQT)
- Remote On/Off
- Voltage Trim
- Heatsink (Optional)
- UL60950 and UL62368

Case: 2" x 1" Case
Size: 2.00L x1.00W x 0.43H
Material: Black Anodized Aluminum



See Datasheet for pin configuration.
All case drawings are inches (mm).

Specifications subject to change without notice.

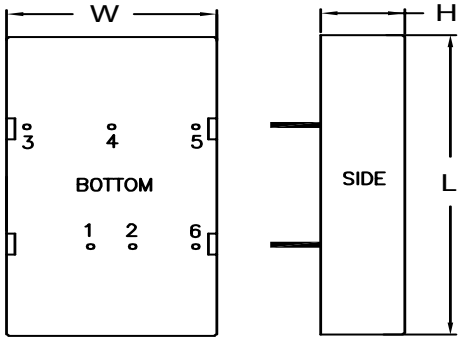
See ConTech Website for Complete Model Selection and Datasheets
www.ConTech-us.com

15 Watt TMS Single and Dual Series
20 Watt TMZ Single and Dual Series



- 1500 VDC Isolation
- Switching Frequency 330 kHz Typ.
- Temperature Range -40ºC to +80ºC Ambient
- Six Sided Shielded
- Heatsink (Optional)

Case: 2" x 1" Case
Size:2.0L x 1.0W x 0.40H
Material: Metal with Non-Conductive Base Plate



15 Watt TMS Series
- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Output Voltage 3.3, 5, 5.1 12, 15, ±5, ±12 & ±15 VDC
- Efficiency up to 86%
- UL60950

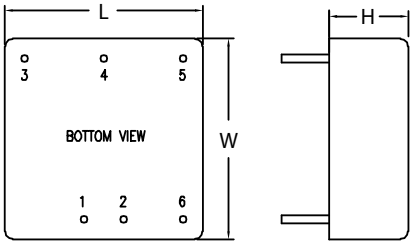
20 Watt TMZ Series
- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- Output Voltage 3.3, 5, 12, 15, ±12 & ±15 VDC
- Efficiency up to 89%
- Remote On/Off
- CSA60950

25 Watt QMS & QMZ Single and Dual Series



- Output Voltage 3.3, 5, 12, 15, ±12 & ±15 VDC
- 1500 VDC Isolation
- Temperature Range -40ºC to +80ºC Ambient
- Heatsink (Optional)
- Six Sided Shielding
- Remote On/Off
- Output Voltage Trim
- CSA60950

Case: 1" x 1" Package
Size: 1.0L x 1.0W x 0.40H
Material: Metal with Non-Conductive Base Plate



25 Watt QMS
- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- Efficiency up to 90%
- Switching Frequency 285 kHz Typ.

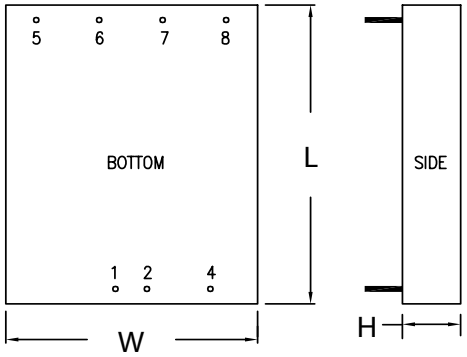
25 Watt QMZ
- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Efficiency up to 90%
- Switching Frequency 285 kHz Typ.

25 - 30 Watt KMS & KMW Single and Dual Series



- Output Voltage 3.3, 5, 12, 15, ±12 & ±15 VDC
- 1500 VDC Isolation
- Efficiency up to 89%
- Switching Frequency 330 kHz Typ.
- Temperature Range -40ºC to +80ºC Ambient
- Six Sided Shielding
- Remote On/Off
- Output Trim
- Heatsink (Optional)

Case: 2" x 1.6" Package
Size: 2.0L x1.6W x 0.37H
Material: Metal with Non-Conductive Base Plate



KMS Series
- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- CSA60950

KMW Series
- Input Voltage 24 & 48 VDC
- Input Range 4:1
- UL60950

See Datasheets for pin configuration.
All case drawings are inches (mm).

Specifications subject to change without notice.

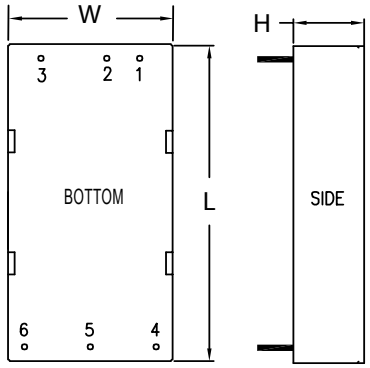
See ConTech Website for Complete Model Selection and Datasheets
www.ConTech-us.com

40 Watt TMH & TMF Single and Dual Series



- Output Voltage 3.3, 5, 12, 15, 24, ±12 & ±15
- 1500 VDC Isolation
- Temperature Range -40ºC to +80ºC Ambient
- Six Sided Shielding
- Remote On/Off
- Output Trim
- Heatsink (Optional)
- CSA60950

Case: 2" x 1" Package
Size: 2.0L x1.0W x 0.43H
Material: Metal with Non-Conductive Base Plate



TMH Series

- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- Efficiency up to 92%
- Switching Frequency 320 kHz Typ.

TMF Series

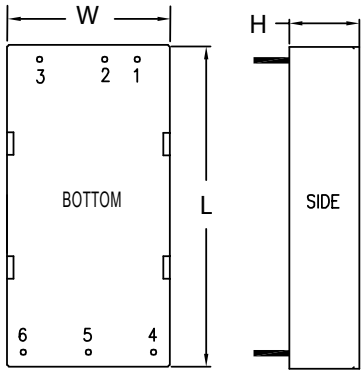
- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Efficiency up to 91%
- Switching Frequency 285 kHz Typ. (24Vo)
  Switching Frequency 320 kHz Typ. (all others)

50 Watt TML & TMX Single Series



- Output Voltage 3.3, 5, 12, 15 & 24 VDC
- 1500 VDC Isolation
- Efficiency up to 92%
- Temperature Range -40ºC to +80ºC Ambient
- Six Sided Shielding
- Heatsink (Optional)
- Remote On/Off
- Output Trim
- CSA60950

Case: 2" x 1" Package
Size: 2.0L x1.0W x 0.43H
Material: Metal with Non-Conductive Base Plate



TML Series

- Input Voltage 12, 24 & 48 VDC
- Input Range 2:1
- Switching Frequency 285 kHz Typ. (24Vo)
  Switching Frequency 320 kHz Typ. (All others)

TMX Series

- Input Voltage 24 & 48 VDC
- Input Range 4:1
- Switching Frequency 285 kHz Typ.

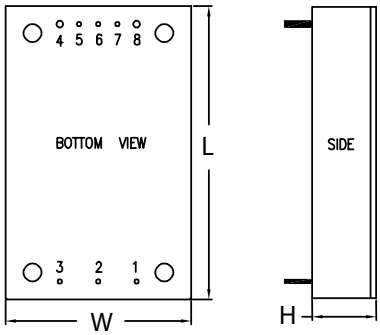
50 Watt RQF Single Series

75 Watt RQS Single Series



- Designed specifically for Railway Applications
- 50 Watt RQF Series and 75 Watt RQS Series
- Input Voltage 72 (43-101)VDC or 110 (66-160) VDC
- Output Voltage 5, 12, 15, 24 VDC
- Efficiency up to 92%
- 3000 VAC rms Isolation
- Temperature Range -40ºC to +85ºC Baseplate (RQF)
  Temperature Range -40ºC to +80ºC Baseplate (RQS)
- Remote On/Off
- Output Voltage Trim
- Output Sense
- Heatsink (Optional)
- UL60950

Size: 2.28L x1.45W x 0.50H
Material: Non-Conductive Black Plastic with
Aluminum Base Plate



See Datasheet for pin configuration.
All case drawings are inches (mm).

Specifications subject to change without notice.

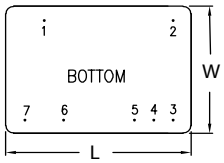
See ConTech Website for Complete Model Selection and Datasheets
www.ConTech-us.com

2 Watt PK2 Switching Single and Dual Output
4 Watt PK4 Switching Single and Dual Output



- Input Voltage Range 85-264 VAC
- Input Frequency 47-440Hz
- 3000 VAC Isolation
- UL60950

Case Material: Resin and Fiberglass Composite (UL94V-0)



PK2 Series

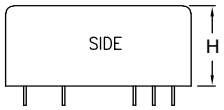
- Output Voltage 3.3, 5, 8, 14, 24 VDC
- Efficiency up to 76%
- Switching Frequency 45 kHz Typ.
- Temperature Range -30ºC to +70ºC Ambient

Case Size: 1.35L x 1.12W x 0.58H

PK4 Series

- Output Voltage 3.3, 5, 9, 12, 15, 24, ±12 & ±15 VDC
- Efficiency up to 77%
- Switching Frequency 130 kHz Typ.
- Temperature Range -25ºC to +60ºC Ambient

Case Size: 1.44L x 1.06W x 0.67H

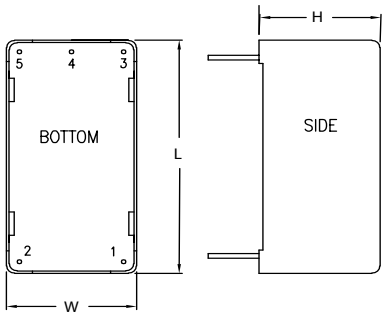


7 Watt PK7 Switching Single Output
10 Watt PL10 Switching Single Output



- Input Voltage Range 85-264 VAC
- Input Frequency 47-440Hz
- Output Voltage 3.3, 5, 12, 15, & 24 VDC
- 3000 VAC Isolation
- Temperature Range -25ºC to +70ºC Ambient
- UL60950

Case Material: Resin and Fiberglass Composite (UL94V-0)



PK7 Series

- Efficiency up to 78%
- Switching Frequency 100 kHz Typ.

Case Size: 2.00L x 1.00W x 0.77H

PL10 Series

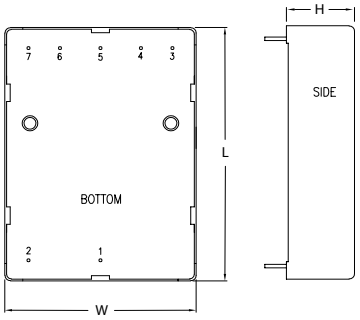
- Efficiency up to 76%
- Switching Frequency 125 kHz Typ.

Case Size: 2.06L x 1.07W x 0.93H

10 Watt PK10 Switching Single and Dual Output
15 Watt PK15 Switching Single and Dual & Triple Output



- Input Voltage Range 85-264 VAC, 47-440Hz
- 3000 VAC Isolation
- Switching Frequency 100 kHz Typ.
- Temperature Range -25ºC to +70ºC Ambient
- UL60950
- Case Material: Resin and Fiberglass Composite (UL94V-0)



PK10 Series

- Output Voltage 3.3, 5, 12, 15, 24, ±12 & ±15 VDC
- Efficiency up to 77%

Case Size: 2.52L x 1.77W x 0.76H

PK15 Series

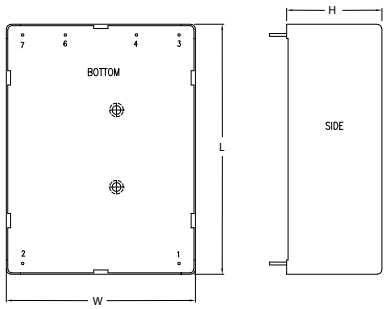
- Output Voltage 5, 12, 15, 24, 48 VDC (see datasheet or website for output configurations)
- Efficiency up to 79%

Case Size: 2.91L x 2.13W x 0.77H

30 Watt PK30 Switching Single, Dual and Triple Output
60 Watt PK60 Switching Single Output



- Input Voltage Range 85-264 VAC, 47-440Hz
- 3000 VAC Isolation
- Switching Frequency 100 kHz Typ.
- UL60950
- Case: Material: Plastic and Fiberglass Composite (UL94V-0)



PK30 Series

- Output Voltage 5, 12, 15, 24, 48 VDC (see datasheet or website for output configurations)
- Temperature Range -25ºC to +70ºC Ambient•

Efficiency up to 80%
Case Size: 3.50L x 2.50W x 0.85H

PK60 Series

- Output Voltage 5.1, 12, 15, 24, 36, 48 VDC
- Temperature Range -10ºC to +70ºC Ambient
- Efficiency up to 84%

Case Size: 3.50L x 2.66W x 1.35H

See Datasheets for pin configuration.
All case drawings are inches (mm).

Specifications subject to change without notice.

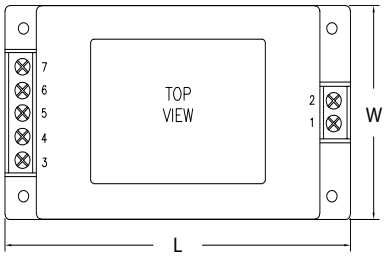
See ConTech Website for Complete Model Selection and Datasheets
www.ConTech-us.com

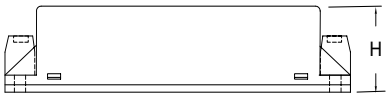
PC Series Switching Single, Dual and Triple Output



- Input Voltage Range 85-265 VAC,
- Output Voltage 5, 12, 15, 24, 48 VDC (see datasheet or website for output configurations)
- 3000 VAC Isolation
- Switching Frequency 100 kHz Typ.
- Temperature Range -25ºC to +70ºC Ambient (PC15 & PC30)
- Temperature Range -10ºC to +70ºC Ambient (PC60)
- Chassis Mount
- Din Rail Mount (Optional See Table below)
- UL60950

Case Material: Plastic and Fiberglass Composite (UL94V-0)



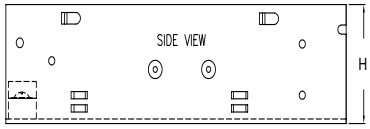


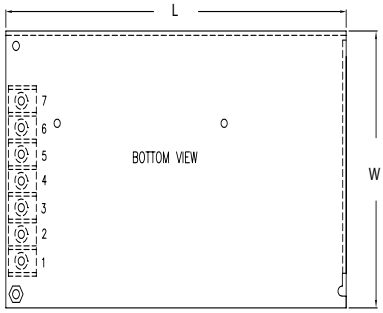
WATTS	SERIES	EFFICIENCY	SIZE	DIN MOUNT OPTION
15	PC15	Up to 79%	3.78L x 2.13W x 0.92H inches (96L x 54W x 23.3H) mm	DIN-01
30	PC30	Up to 80%	4.41L x 2.51W x 1.01H inches (112L x 63.8W x 25.6H) mm	DIN-02
60	PC60	Up to 84%	4.41L x 2.67W x 1.50H inches (112L x 67.8W x 38H) mm	DIN-03

CM Series Switching Single Output



- Universal Input Range
- Output Voltage 12, 24 & 48 VDC
- Adjustable Output
- Single Output
- Short Circuit Protection
- Overload Protection
- Over Voltage Protection
- MTBF > 100,000 Hours

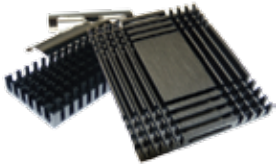




WATTS	SERIES	INPUT VOLTAGE RANGE	EFFICIENCY	SIZE
25	CM25	88-264 VAC	Up to 83%	3.6L x 2.0W x 1.12H inches (91.7L x 51W x 28.4H) mm
35	CM35	88-264 VAC	Up to 84%	3.92L x 3.19W x 1.44H inches (99.6L x 81W x 36.5H) mm
50	CM50	88-264 VAC	Up to 86%	3.92L x 3.82W x 1.40H inches (99.6L x 97W x 35.5H) mm
75	CM75	88-264 VAC	Up to 86%	5.08L x 3.84W x 1.50H inches (129L x 97.5W x 38H) mm
100	CM100	88-264 VAC	Up to 84%	6.26L x 3.84W x 1.50H inches (159L x 97.5W x 38H) mm
150	CM150	88-132/176-264 VAC Selected by switch	Up to 87%	7.83L x 3.86W x 1.63H inches (199L x 98W x 41.5H) mm

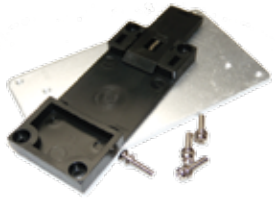
Accessories

Heatsinks for DC/DC Converters



HS-01 (Fits 1 x 2 Metal Cases)
HS-02 (Fits 2 x 1.6 Metal Cases)
HS-03 (Fits 1 x 1 Metal Cases)
Heatsinks include thermal pad and mounting clips

Din Rail Mounting Kits for AC/DC Power Supplies



DIN-01 Base Plate (Fits PC-15 and DRT Series)
DIN-02 Base Plate (Fits PC-30 and DRF Series)
DIN-03 Base Plate (Fits PC-60 and DRS Series)
Din-Rail Mounting kit includes metal mounting plate, din rail clip, and mounting hardware for clip and plate.

See Datasheet for pin configuration.
All case drawings are inches (mm).

Specifications subject to change without notice.

www.ConTech-us.com
877-302-4411
925-609-1193

sales@ConTech-us.com



RoHS Compliant
ISO9001:2008 Certified

CONTECH
Division of Calex Mfg.

8/2017