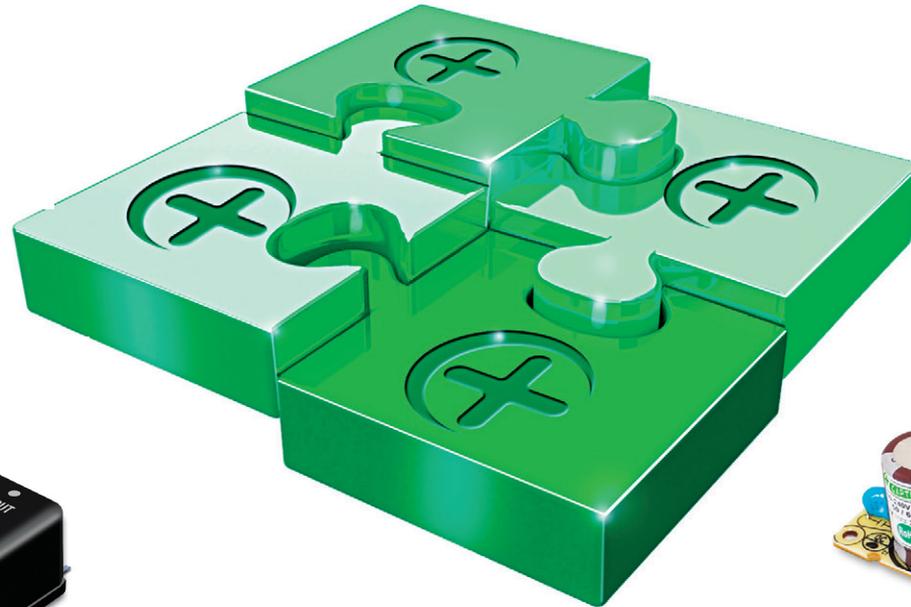
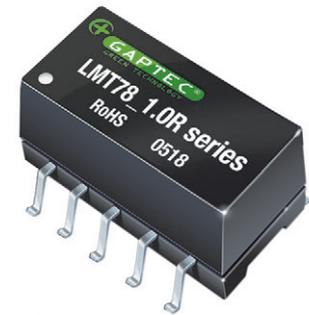


Transforming AC&DC Power Supplies

Product Selection Guide

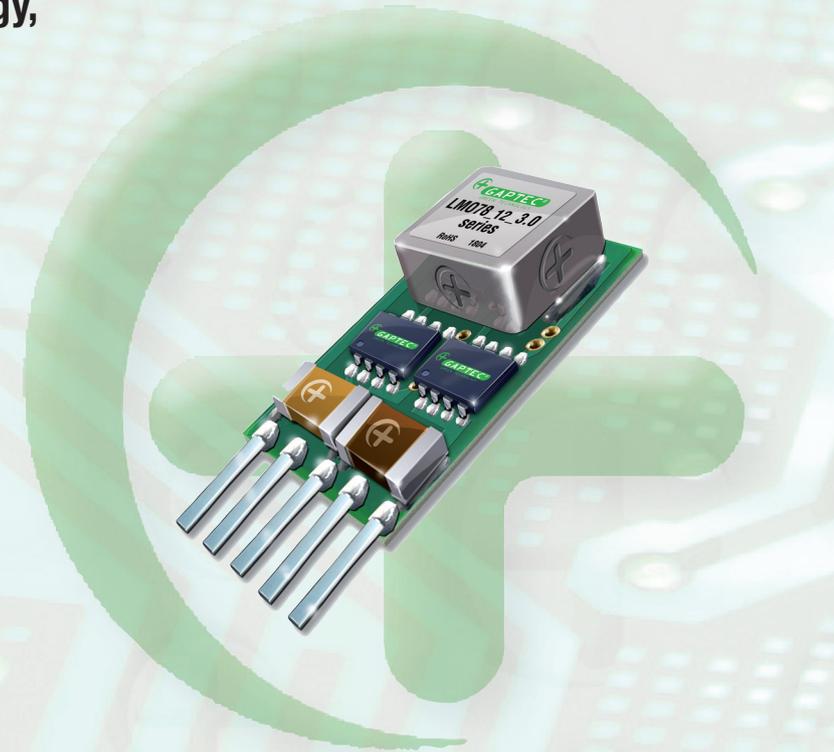
AC-DC converters - DC-DC converters - LED drivers



AC-DC and DC-DC power supply solutions

GAPTEC Electronic equips the entire industrial electronics industry with power supply modules/converters, focussed on control technology, wind, power, railway, medical and photovoltaic systems.

GAPTEC Electronic was founded 2010. With more than 25 years of experience in the global power supply market GAPTEC Electronic is focusing especially on market demands and is serving its needs. Therefore GAPTEC Electronic has specialized in voltage transformers (AC-DC, DC-DC and LED drivers), supplying a selected range of converters and modules with typical isolation and industrial voltages as well as currently common terminal pin assignments. GAPTEC Electronics guarantees highest quality standards (UL 60950, EN 50155, UL 60601) and maximum flexibility that offers shortest lead-times at low cost. Even when a second source is needed.



Innovative Designs - Premium Quality - Micro Size Design

- + More than 25 years global power supply experience
- + Very short delivery times (approx. 4 weeks)
- + Real second source for most common parts
- + UL approvals for a wide range of selected parts

| | | | | | | | | | | | | |
|--|--|---|---|--|---|--|---|--|---|--|--|---|
|  AC-DC Converters (Industrial) |  AC-DC Converters (Medical) |  AC-DC DIN Rail |  AC-DC off Board (Housing) |  AC-DC off Board (Open Frame) |  DC-DC Converters (Industrial) |  DC-DC Converters (Photovoltaic) |  DC-DC Converters (ISBT & SIC) |  DC-DC Converters (Railway) |  DC-DC Converters (Step-Down Regulators) |  DC-DC Converters (Power over Ethernet) |  DC-DC Converters (LED Drivers) |  RJ45 Inline Coupler Jacks |
| Pages: 4-6 | Page: 7 | Page: 8 | Page: 9-10 | Pages: 10 | Pages: 12-22 | Page: 24 | Page: 24 | Page: 25 | Pages: 27-28 | Pages: 28 | Page: 29 | Page: 30 |

AC-DC converters - galvanic isolated

PCB mounted, DIN rail versions, housing and open frame

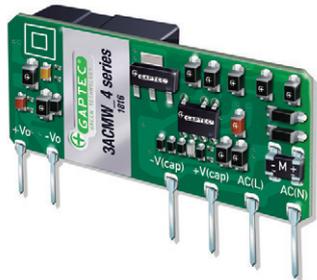
Our standard and custom designed AC-DC power converters are qualified by OEMs and used for municipal AC electric power systems, instrument and metering, communication and medical equipment. The modules provide universal input, high efficiency, high reliability, very low stand-by power and they are energy saving. Our AC-DC converters meet the most important requirements as far as operating temperature (-40°C up to +85°C), low ripple/noise, multiple protections, and they come with very small size dimensions. The parts provide universal input: 85VAC up to 528VAC or (100-745VDC) and isolation up to 4kVAC. GAPTEC Electronic offers customers short lead times and a 3-year warranty.



The new 1200 watts **1200ACP_SCF series** is a single output power supply open frame (with housing) AC-DC converter with active PFC (power factor correction) and a built-in fan. This series features up to 89% high efficiency and an input range of 90~264VAC, as well as over voltage protection (OVP), over load protection (OLP), short circuit protection (SCP).

Dimensions: (226 x 116.5 x 41mm).

NEW: Feature series



3ACMW series

Description:
High performance AC-DC converter

- Case size: SIP open frame
- 4 kVDC isolation
- UL certified
- Short circuit protection (SCP)
- Input range: 90-528VAC
- GAPTEC Green Power Technology



AC-DC modules - **INDUSTRIAL** - 1 watt, 2 watt, 3 watt

SCP = Short Circuit Protection



| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|--------------|--|-------------|------------------------------------|-----------------------|--------------|------------|-----|-------------|-----------------|--------------------|
| 1 | 1ACA | DIP 33.7 x 22.2 x 18 mm | wide | 85-305VAC; 47-63Hz; 120-430VDC | 3.3; 5; 9; 12; 15; 24 | 3kVAC | • | • | 75% | -40°C - +70°C | UL & CE |
| 1 | 1ACM | SIP12 open frame 35 x 11 x 18 mm | wide | 85-264VAC; 47-63Hz; 70-400VDC | 5; 9; 12; 15; 24 | 3kVAC | • | • | 70% | -40°C - +85°C | UL & CE |
| 1 | 1ACN | DIP 37 x 24.5 x 18 mm | wide | 165-264VAC; 47-63Hz; 233-370VDC | 5; 12; 24 | 3kVAC | • | • | 70% | -40°C - +70°C | CE |
| 2 | 2ACA | DIP 33.7 x 22.2 x 18 mm | wide | 85-305VAC; 47-63Hz; 120-430VDC | 3.3; 5; 9; 12; 15; 24 | 3kVAC | • | • | 78% | -40°C - +70°C | UL & CE |
| 2 | 2ACN | DIP 37 x 24.5 x 18 mm | wide | 165-264VAC; 47-63Hz; 233-370VDC | 5; 12; 24 | 3kVAC | • | • | 70% | -40°C - +70°C | CE |
| 3 | 3ACA | DIP 37 x 24.5 x 18 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 9; 12; 15; 24 | 3kVAC | • | • | 73% | -40°C - +85°C | UL & CE |
| 3 | 3ACM | SIP open frame 35 x 11 x 18 mm | wide | 85-264VAC; 47-63Hz; 70-400VDC | 3.3; 5; 9; 12; 15; 24 | 3kVAC | • | • | 78% | -40°C - +85°C | UL & CE |
| 3 | 3ACMF | SIP open frame 35 x 11 x 16.6 mm | wide | 85-305VAC; 47-63Hz; 70-430VDC | 3.3; 5; 9; 12; 15; 24 | 3kVAC | • | • | 80% | -40°C - +85°C | CE |
| 3 | 3ACMW | SIP open frame 44.5 x 13 x 24 mm | wide | 90-528VAC; 47-63Hz; 100-745VDC | 3.3; 5; 9; 12; 15; 24 | 4kVAC | • | • | 76% | -40°C - +85°C | UL & CE |
| 3 | 3ACN | DIP 37 x 24.5 x 18 mm | wide | 165-264VAC; 47-63Hz; 233-370VDC | 5; 12; 24 | 3kVAC | • | • | 70% | -40°C - +70°C | CE |

NEW: Feature series



3ACMF series

Power: 3 watt

Case size: SIP open frame

Isolation: 3kVAC

Regulated: YES

SCP: YES

(Short Circuit Protected)

AC-DC modules - INDUSTRIAL - 5 watt, 10 watt, 12 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|---------------|-------------------------------|-------------|-----------------------------------|--|-----------|------------|-----|-------------|-----------------|---------|
| 5 | 5ACDM | DIP 25.4 x 25.4 x 16,1 mm | wide | 90-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 9; 12; 15; 24; 48 | 3kVAC | • | • | 85% | -40°C - +70°C | UL & CE |
| 5 | 5ACA | DIP 50.8 x 25.4 x 15,16 mm | wide | 85-264VAC; 47-63Hz; 110-370VDC | 3.3; 5; 9; 12; 15; 24 | 4kVAC | • | • | 78% | -40°C - +70°C | UL & CE |
| 5 | 5ACAW | DIP 50.8 x 25.4 x 15,16 mm | wide | 85-305VAC; 47-63Hz; 120-430VDC | 3.3; 5; 9; 12; 15; 24 | 4kVAC | • | - | 80% | -40°C - +70°C | UL & CE |
| 5 | 5ACB | DIP 48.5 x 36 x 20,5 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 9; 12; 15; 24; ± 5 ; ± 12 ; ± 15 ; ± 24 | 3kVAC | • | • | 82% | -40°C - +85°C | UL & CE |
| 5 | 5ACM | SIP14 42 x 20 x 13,65 mm | wide | 85-264VAC; 47-63Hz; 70-400VDC | 3.3; 5; 9; 12; 15; 24 | 3kVAC | • | • | 79% | -40°C - +85°C | UL & CE |
| 10 | 10ACAE | DIP 52.5 x 27.5 x 23,5mm | wide | 90-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 12; 15; 24 | 3kVAC | • | • | 80% | -40°C - +70°C | UL & CE |
| 10 | 10ACA | DIP 53.8 x 28.8 x 19 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 9; 12; 15; 24 | 4kVAC | • | • | 80% | -40°C - +70°C | UL & CE |
| 10 | 10ACAW | DIP 53.8 x 28.8 x 19 mm | wide | 85-305VAC; 47-63Hz; 120-430VDC | 3.3; 5; 9; 12; 15; 24 | 3kVAC | • | - | 80% | -40°C - +70°C | UL & CE |
| 10 | 10ACB | DIP 55 x 45 x 21mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 9; 12; 15; 24; ± 5 ; ± 12 ; ± 15 ; ± 24 | 3kVAC | • | • | 84% | -40°C - +70°C | UL & CE |
| 12 | 12ACA | DIP 53.5 x 28.8 x 23,5 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 12; 15; 24 | 4kVAC | • | • | 83% | -40°C - +70°C | UL & CE |



NEW: Feature series



5ACDM series

- Power:** 5 watt
- Case size:** DIP 1"x1"
- Isolation:** 3kVAC
- Regulated:** YES
- SCP:** YES
(Short Circuit Protected)

This Product Selection shows only the most popular converters. Please check our website in case you did not find what you were looking for or contact us directly: info@gaptec-electronic.com REV. 10/2018

www.gaptec-electronic.com

AC-DC modules - INDUSTRIAL - 15 watt, 20 watt, 25 watt, 40 watt, 60 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|--------|------------------------------|-------------|-----------------------------------|--|-----------|------------|-----|-------------|-----------------|---------|
| 15 | 15ACB | DIP 62 x 45 x 22,5 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 9; 12; 15; 24; ± 5 ; ± 12 ; ± 15 ; ± 24 | 3kVAC | • | • | 83% | -40°C - +70°C | UL & CE |
| 20 | 20ACAE | DIP 52.5 x 27.5 x 23,5 mm | wide | 90-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 12; 15; 24 | 3kVAC | • | • | 83% | -40°C - +70°C | UL & CE |
| 20 | 20ACA | DIP 53.8 x 28.8 x 23,5 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 12; 15; 24 | 3kVAC | • | • | 83% | -40°C - +70°C | UL & CE |
| 20 | 20ACB | DIP 70 x 48 x 23,5 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 9; 12; 15; 24; ± 5 ; ± 12 ; ± 15 ; ± 24 | 3kVAC | • | • | 83% | -40°C - +70°C | UL & CE |
| 25 | 25ACA | DIP 52.5 x 27.5 x 23,5 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 5.1; 12; 15; 24 | 3kVAC | • | • | 86% | -40°C - +70°C | UL & CE |
| 25 | 25ACB | DIP 70 x 48 x 23,5 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 9; 12; 15; 24; 48 | 3kVAC | • | • | 87% | -40°C - +70°C | UL & CE |
| 40 | 40ACB | DIP 89 x 63.5 x 25 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 12; 24 | 3kVAC | • | • | 85% | -40°C - +70°C | UL & CE |
| 60 | 60ACB | DIP 96.3 x 58.5 x 30 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 9; 12; 15; 24; 48 | 3kVAC | • | • | 86% | -40°C - +70°C | UL & CE |

NEW: Feature series



20ACAE series

Power: 20 watt
 Case size: DIP 52.5x27.5 mm
 Isolation: 3kVAC
 Regulated: YES
 SCP: YES
 (Short Circuit Protected)

LMT078 - Ultra Flat Design = 3.6 mm!



AC-DC modules - **MEDICAL** - 15 watt, 30 watt, 60 watt, 100 watt, 150 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|-----------------|-------------------------------|-------------|-----------------------------------|----------------------|-----------|------------|-----|-------------|-----------------|---------|
| 5 | 5ACMEA | DIP 53.8 x 28.8 x 19 mm | wide | 85-264VAC; 47-63Hz; 100-370VDC | 5; 12; 15; 24 | 4kVAC | • | • | 81% | -25°C - +70°C | UL & CE |
| 15 | 15ACMEA | DIP 52.5 x 27.5 x 23.5 mm | wide | 90-264VAC; 47-63Hz; 120-370VDC | 5; 9; 12; 15; 24 | 4kVAC | • | • | 85% | -40°C - +80°C | UL & CE |
| 25 | 25ACBME | DIP 70 x 48 x 23,5mm | wide | 85-264VAC; 47-63Hz; 100-370VDC | 5; 12; 15; 18; 24 | 4kVAC | • | • | 89% | -40°C - +70°C | UL & CE |
| 30 | 30ACMEB | DIP 64.1 x 45.6 x 23.5 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 5; 12; 15; 24 | 4kVAC | • | • | 89% | -40°C - +80°C | UL & CE |
| 60 | 60ACMEB | DIP 89.0 x 63.5 x 27.0 mm | wide | 90-264VAC; 47-63Hz; 120-370VDC | 5; 9; 12; 15; 24 | 4kVAC | • | - | 87% | -40°C - +70°C | UL & CE |
| 100 | 100ACMEA | DIP 109.0 x 58.8 x 35.9 mm | wide | 90-264VAC; 47-63Hz; | 12; 15; 24; 48 | 4kVAC | • | • | 93.5% | -30°C - +70°C | UL & CE |
| 100 | 100ACMEB | DIP 83.9 x 58.8 x 35.0 mm | wide | 99-264VAC; 47-63Hz; | 12, 24, 48 | 4kVAC | • | • | 90% | -30°C - +70°C | UL & CE |
| 150 | 150ACMEA | DIP 109.0 x 58.8 x 35.9 mm | wide | 85-264VAC; 47-63Hz; | 12; 15; 24; 48 | 4kVAC | • | • | 93.5% | -30°C - +70°C | UL & CE |



NEW: Feature series



100ACMEB series

- Power:** 100 watt
- Case size:** 83.9x58.8x35.0 mm
- Isolation:** 4kVAC
- Regulated:** YES
- SCP:** YES
(Short Circuit Protected)

New
20DMWE4
Series

20 watt cost effective series
High efficiency DC-DC converter in a 6-pin DIP package

This Product Selection shows only the most popular converters. Please check our website in case you did not find what you were looking for or contact us directly: info@gaptec-electronic.com REV. 10/2018

www.gaptec-electronic.com

AC-DC modules - DIN RAIL - 60, 75, 120, 240, 360, 480 and 960 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|------------|-----------------------|-------------|-----------------------------------|----------------------|-----------|------------|-----|-------------|-----------------|---------|
| 60 | 60ACDR_S | 103 x 97 x 32mm | wide | 90-264VAC; 47-63Hz; 127-360VDC | 12; 24; 48 | 3kVAC | • | • | 83% | -25°C - +70°C | UL & CE |
| 75 | 75ACDR_SC | 124 x 119 x 32mm | wide | 85-264VAC; 47-63Hz; 127-360VDC | 12; 24; 48 | 3kVAC | • | • | 83% | -25°C - +70°C | UL & CE |
| 120 | 120ACDR_SC | 124 x 119 x 32mm | wide | 85-264VAC; 47-63Hz; 127-360VDC | 12; 24; 48 | 3kVAC | • | • | 83% | -25°C - +70°C | UL & CE |
| 240 | 240ACDR_SC | 124 x 119 x 45mm | wide | 85-264VAC; 47-63Hz; 127-375VDC | 24; 48 | 3kVAC | • | • | 83% | -25°C - +70°C | UL & CE |
| 360 | 360ACDR_SC | 127 x 124 x 50mm | wide | 85-264VAC; 47-63Hz; | 24; 36; 48 | 3kVAC | • | • | 86% | -25°C - +70°C | UL & CE |
| 480 | 480ACDR_SC | 127 x 124 x 70mm | wide | 85-264VAC; 47-63Hz; 130-350VDC | 24; 48 | 3kVAC | • | • | 87% | -25°C - +70°C | UL & CE |
| 960 | 960ACDR_SC | 138.2 x 124.6 x 140mm | wide | 85-264VAC; 47-63Hz; 220-370VDC | 24 | 3kVAC | • | • | 85% | -25°C - +70°C | CE |

NEW: Feature series



240ACDR series

Power: 240 watt

Case size: 124 x 119 x 45mm

Isolation: 3kVAC

Regulated: YES

SCP: YES

(Short Circuit Protected)



AC-DC modules - OFF BOARD (Housing) - 15, 25, 35, 50, 75, 100, 150, 200 and 320 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|------------|---------------------|-------------|-------------------------------------|----------------------|-----------|------------|-----|-------------|-----------------|---------|
| 15 | 15ACP_S | 79 x 51 x 28.8mm | wide | 90-264VAC; 47-63Hz | 5, 9; 12; 15; 24 | 3kVAC | • | • | 83% | -25°C - +70°C | UL & CE |
| 25 | 25ACP_S | 79 x 51 x 28.8mm | wide | 90-264VAC; 47-63Hz | 5; 12; 15; 24 | 3kVAC | • | • | 84% | -25°C - +70°C | UL & CE |
| 35 | 35ACP_S | 101.6 x 63.5 x 33mm | wide | 90-264VAC; 47-63Hz; 127-370VDC | 5; 9; 12; 15; 24 | 3kVAC | • | • | 88% | -25°C - +70°C | UL & CE |
| 50 | 50ACP_S | 99 x 82 x 35mm | wide | 88-264VAC; 47-63Hz; 127-370VDC | 12; 15; 24; 48 | 3kVAC | • | • | 88.5% | -25°C - +70°C | UL & CE |
| 75 | 75ACP_S | 129 x 98 x 38mm | wide | 90-264VAC; 47-63Hz | 12, 24, 48 | 3kVAC | • | • | 88% | -25°C - +70°C | UL & CE |
| 100 | 100ACP_SC | 199 x 99 x 38mm | wide | 85-264VAC; 47-63Hz | 12; 15; 24; 48 | 3kVAC | • | • | 87% | -20°C - +65°C | UL & CE |
| 100 | 100ACPM_SC | 129 x 98,3 x 37,6mm | wide | 90-264VAC; 47-63Hz; | 12; 15; 24; 48 | 3kVAC | • | • | 88% | -20°C - +60°C | UL & CE |
| 150 | 150ACP_S | 199 x 98.3 x 38mm | wide | 90-132VAC & 176-264VAC; 47-63Hz | 12; 15; 24; 48 | 3kVAC | • | • | 87% | -20°C - +65°C | UL & CE |
| 150 | 150ACP_SC | 199 x 99 x 38mm | wide | 85-264VAC; 47-63Hz | 12; 15; 24; 48 | 3kVAC | • | • | 87% | -20°C - +65°C | UL & CE |
| 150 | 150ACPM_SC | 160 x 99 x 38mm | wide | 90-264VAC; 47-63Hz; 120 — 370Vdc | 12; 15; 24; 48 | 3kVAC | • | • | 88% | -20°C - +70°C | UL & CE |
| 200 | 200ACP_SC | 199 x 99 x 38mm | wide | 90-264VAC; 47-63Hz | 12; 15; 48 | 3kVAC | • | • | 88.5% | -20°C - +65°C | UL & CE |
| 200 | 200ACP_SC | 199 x 99 x 50mm | wide | 90-264VAC; 47-63Hz; 120-370VDC | 12; 24; 36; 48 | 3kVAC | • | • | 87% | -20°C - +65°C | UL & CE |
| 320 | 320ACP_SCF | 199 x 99 x 50mm | wide | 90-264VAC; 47-63Hz; 120-370VDC | 12; 24; 36; 48 | 3kVAC | • | • | 87.5% | -20°C - +65°C | UL & CE |



NEW: Feature series



100ACPM_SC series

Power: 100 watt
Case size: 129 x 98,3 x 37,6mm
Isolation: 3kVAC
Regulated: YES
SCP: YES
 (Short Circuit Protected)

This Product Selection shows only the most popular converters. Please check our website in case you did not find what you were looking for or contact us directly: info@gaptec-electronic.com REV. 10/2018

www.gaptec-electronic.com

AC-DC modules - OFF BOARD (Housing) - 600, 800, 1000 and 1200 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|-------------|---------------------|-------------|-----------------------------------|----------------------|-----------|------------|-----|--------|-----------------|---------|
| 600 | 600ACP_SCF | 218x 116.5 x 40.7mm | wide | 90-264VAC; 47-63Hz | 12; 24; 48 | 3kVAC | • | • | 93.8% | -20°C - +65°C | UL & CE |
| 800 | 800ACP_SCF | 226 x 116.5 x 41mm | wide | 90-264VAC; 47-63Hz; 120-370VDC | 24; 27; 48 | 3kVAC | • | • | 89% | -20°C - +65°C | UL & CE |
| 1000 | 1000ACP_SCF | 226 x 116.5 x 41mm | wide | 90-264VAC; 47-63Hz; | 24; 48 | 3kVAC | • | • | 90% | -20°C - +65°C | UL & CE |
| 1200 | 1200ACP_SCF | 226 x 116.5 x 41mm | wide | 90-264VAC; 47-63Hz; | 24; 48 | 3kVAC | • | • | 90% | -20°C - +65°C | UL & CE |

AC-DC modules - OFF BOARD (Open Frame) - 20, 35, 45, 60, 125, 200 watt

SCP = Short Circuit Protection

| | | | | | | | | | | | |
|-----|------------|---------------------|------|-----------------------------------|------------------------|-------|---|---|-----|---------------|---------|
| 20 | 20ACPO_S | 89 x 51 x 20 mm | wide | 85-264VAC; 47-63Hz; 120-370VDC | 3.3; 5; 12; 15; 24; 48 | 3kVAC | • | • | 80% | -25°C - +70°C | UL & CE |
| 35 | 35ACPO_S | 101,6 x 51 x 24 mm | wide | 90-264VAC; 47-63Hz | 5; 12; 24; 48 | 3kVAC | • | • | 86% | -20°C - +65°C | UL & CE |
| 45 | 45ACPO_S | 101,6 x 51 x 28 mm | wide | 90-264VAC; 47-63Hz | 12; 24; 48 | 3kVAC | • | • | 86% | -10°C - +60°C | UL & CE |
| 60 | 60ACPO_SE | 101,6 x 51 x 29 mm | wide | 90-264VAC; 47-63Hz | 5; 12; 15; 24; 48 | 3kVAC | • | • | 86% | -10°C - +65°C | UL & CE |
| 125 | 125ACPO_SP | 127 x 76 x 30,5mm | wide | 90-264VAC; 47-63Hz; 127-370VDC | 5; 12; 15; 24; 36; 48 | 3kVAC | • | • | 87% | -20°C - +70°C | UL & CE |
| 200 | 200ACPO_SP | 128 x 76,5 x 34,6mm | wide | 90-264VAC; 47-63Hz; 127-370VDC | 12; 24; 48 | 3kVAC | • | • | 90% | -20°C - +70°C | UL & CE |

NEW: Feature series



60ACPO_SE

Power: 60 watt
Case size: 101,6 x 51 x 29 mm
Isolation: 3kVAC
Regulated: YES
SCP: YES
 (Short Circuit Protected)

DC-DC converters - galvanic isolated

Our DC-DC power supplies are trusted by OEMs and used in industry control, medical applications, telecom and communication, transportation and railway. Our power supplies meet the most important specifications in terms of output voltage ripple, low noise, high density, high efficiency (up to 93%), wide operating temperature range (up to $-55^{\circ}\text{C}/+125^{\circ}\text{C}$), input/output isolation and EMC. GAPTEC has a broad range of DC-DC converters, with output power ranges from 0.1 watt to 350 watts. Our products are available as THT (through hole technology) and SMT (service mount technology), in ultra small packages with high power density and isolation voltages up to 4.2kVAC/6kVDC & re-inforced up to 10kVDC. GAPTEC Electronic offers customers very short lead times and a 3-year warranty.

DC-DC converters - for photovoltaic

Our DCP series DC-DC converters are generally used in the control and monitoring system for photovoltaic installations. Those converters are characterized by an extremely wide input voltage range of 200 - 1500VDC in and in addition they are offering a high galvanic isolation (4kVDC). The operating temperature range is from -40°C to $+85^{\circ}\text{C}$. Our DCP series offers the following power classes: 5, 10, 15 & 40 watts, along with the common industry standard output voltages. All converters are SCP (short circuit protected) to protect the converters and applications in the area of operation. The products are offered in compact size and in metal housings as through hole versions. GAPTEC Electronic offers customers short lead times and a 3-year warranty.



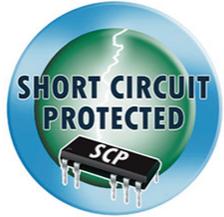
Ultra wide input range DC-DC converters, isolated & regulated, single output, DIP and SMD package and ultra low case design



All parts are RoHS compliance and most with safety approvals (UL/CE).

DC-DC converters - **INDUSTRIAL** - 0.1 watt, 0.25 watt and 0.5 watt

SCP = Short Circuit Protection



| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|---------------------|------------|-------------|------------------------|--|-----------|------------|-----|--------|-----------------|-----------|
| 0.1 | 0.1S4A_1.5U | SIP4 | ±10% | 3.3; 5; 12 | 3.3; 5; 9; 12; 15 | 1.5kVDC | - | - | 86% | -40°C - +85°C | - |
| 0.1 | 0.1MD4A_1.5U | DIP4 Micro | ±10% | 3.3; 5 | 3.3; 5 | 1.5kVDC | - | - | 50% | -40°C - +85°C | - |
| 0.1 | 0.1D8A_1.5U | DIP8 | ±10% | 3.3; 5; 12 | 3.3; 5; 9; 12; 15 | 1.5kVDC | - | - | 86% | -40°C - +85°C | - |
| 0.1 | 0.1S7B_3UP | SIP7 | ±10% | 3.3; 5; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24; ±5 ±9; ±12; ±15 | 3kVDC | - | • | 80% | -40°C - +105°C | - |
| 0.1 | 0.1D14B_3UP | DIP14 | ±10% | 3.3; 5; 12 | 3.3; 5; 9; 12; 15; ±5 ±9; ±12; ±15 | 3kVDC | - | • | 80% | -40°C - +105°C | - |
| 0.25 | QS4E_1.5U | SIP4 | ±10% | 3.3; 5; 12; 15; 24; 48 | 3.3; 5; 9; 12; 15; 24 | 1.5kVDC | - | - | 74% | -40°C - +85°C | - |
| 0.25 | QS4A_1.5UP | SIP4 | ±10% | 3.3; 5; 12; 15; 24 | 3.3; 5; 9; 12 | 1.5kVDC | - | • | 77% | -40°C - +105°C | UL |
| 0.25 | QD8A_1U | DIP8 | ±10% | 3.3; 5; 9; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24 | 1kVDC | - | - | 75% | -40°C - +85°C | - |
| 0.25 | QT8E_1U | SMD8 | ±10% | 3.3; 5; 12; 15 | 3.3; 5; 9; 12; 15 | 1kVDC | - | - | 72% | -40°C - +85°C | - |
| 0.25 | QT8A_1.5UP | SMD8 | ±10% | 3.3; 5; 12; 24 | 3.3; 5; 9; 12; 15 | 1.5kVDC | - | • | 80% | -40°C - +105°C | - |
| 0.25 | QS7B_3UP | SIP7 | ±10% | 3.3; 5; 12; 15 | 3.3; 5; 9; 12; 15; 24; ±5 ±9; ±12; ±15; ±24 | 3kVDC | - | • | 81% | -40°C - +105°C | - |
| 0.25 | QT8A_3UP | SMD8 | ±10% | 3.3; 5; 12; 15; 24 | 3.3; 5; 9; 12; 15 | 3kVDC | - | • | 78% | -40°C - +105°C | - |
| 0.5 | 0.5S4E_1.5U | SIP4 | ±10% | 5; 12; 24; 48 | 5; 9; 12; 15; 24 | 1.5kVDC | - | - | 78% | -40°C - +85°C | - |
| 0.5 | 0.5T8E_1U | SMD8 | ±10% | 3.3; 5; 9; 12; 15 | 3.3; 5; 9; 12; 15 | 1kVDC | - | - | 78% | -40°C - +85°C | - |
| 0.5 | 0.5T8E_1U | SIP7 | ±10% | 3.3; 5; 12; 15 | 3.3; 5; 9; 12; 15; 24; ±5 ±9; ±12; ±15 | 3kVDC | - | • | 83% | -40°C - +105°C | - |
| 0.5 | 0.5T8E_1U | SMD8 | ±10% | 3.3; 5; 12; 15; 24 | 3.3; 5; 9; 12; 15 | 3kVDC | - | • | 78% | -40°C - +105°C | - |

NEW: Feature series



0.1MD4A_1.5U

Power: 0.1 watt
 Case size: DIP4 Micro
 Isolation: 1.5kVDC
 Operating temperature: -40°C - +85°C

DC-DC converters - INDUSTRIAL - 0.75 watt and 1 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|---------------|------------|-------------|------------------------|---|-----------|------------|-----|-------------|-----------------|-------|
| 0.75 | 0.75S4A_3RP | SIP4 | $\pm 10\%$ | 5 | 3.3; 5; 9; 12; 15 | 3kVDC | • | • | 74% | -40°C - +85°C | - |
| 0.75 | 0.75T8A_1.5RP | SMD8 | $\pm 10\%$ | 5 | 3.3; 5; 9; 12; 15 | 1.5kVDC | • | • | 74% | -40°C - +105°C | UL |
| 1 | 1S4E_1U | SIP4 | $\pm 10\%$ | 3.3; 5; 12; 15; 24; 48 | 3.3; 5; 7.2; 9; 12; 15; 18; 24 | 1kVDC | - | - | 83% | -40°C - +85°C | - |
| 1 | 1S4A_1.5UP | SIP4 | $\pm 10\%$ | 3.3; 5; 9; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24 | 1.5kVDC | - | • | 83% | -40°C - +105°C | UL |
| 1 | 1MS4A_1U | SIP4 Micro | $\pm 10\%$ | 3.3; 5; 12 | 3; 5; 9; 12; 15 | 1kVDC | - | - | 78% | -40°C - +85°C | - |
| 1 | 1MS4A_3UP | SIP4 Micro | $\pm 10\%$ | 3.3; 5; 12; 24 | 3; 5; 9; 12; 15 | 3kVDC | - | • | 81% | -40°C - +85°C | - |
| 1 | 1D8B_1U | DIP8 | $\pm 10\%$ | 3.3; 5; 9; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24 | 1kVDC | - | - | 82% | -40°C - +85°C | - |
| 1 | 1D8A_1.5UP | DIP8 | $\pm 10\%$ | 3.3; 5; 9; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24 | 1.5kVDC | - | • | 83% | -40°C - +105°C | UL |
| 1 | 1MD8A_3UP | DIP8 Micro | $\pm 10\%$ | 3.3; 5; 9; 12; 24 | 3.3; 5; 9; 12; 15 | 3kVDC | - | - | 81% | -40°C - +85°C | - |
| 1 | 1D14B_1.5UP | DIP14 | $\pm 10\%$ | 5; 12; 24 | $\pm 5; \pm 9; \pm 12; \pm 15; \pm 24$ | 1.5kVDC | - | • | 81% | -40°C - +105°C | UL |
| 1 | 1D14C_3UP | DIP14 | $\pm 10\%$ | 3.3; 5; 12; 15; 24 | 3.3; 5; 12; 15; $\pm 5; \pm 12; \pm 15$ | 3kVDC | - | • | 81% | -40°C - +105°C | UL |
| 1 | 1S7A_DS1U | SIP7 | $\pm 10\%$ | 5; 9; 12; 15; 24 | Vout1: 3.3; 5; 9; 12; 15; 24 Vout2: 3.3; 5; 9; 12; 15; 24 | 1kVDC | - | - | 80% | -40°C - +85°C | - |
| 1 | 1S7A_DS3UP | SIP7 | $\pm 10\%$ | 5; 9; 12; 15; 24 | Vout1: 3.3; 5; 9; 12; 15; 24 Vout2: 3.3; 5; 9; 12; 15; 24 | 3kVDC | - | • | 80% | -40°C - +85°C | - |
| 1 | 1S7E_1.5UP | SIP7 | $\pm 10\%$ | 3.3; 5; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24; $\pm 3.3; \pm 5; \pm 12; \pm 15; \pm 24$ | 1.5kVDC | - | • | 80% | -40°C - +105°C | UL |
| 1 | 1S7E_3UP | SIP7 | $\pm 10\%$ | 3.3; 5; 9; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24; $\pm 5; \pm 9; \pm 12; \pm 15; \pm 24$ | 3kVDC | - | • | 76% | -40°C - +105°C | UL |



NEW: Feature series



0.75T8A_1.5RP

Power: 0.75 watt
Case size: SMD8
Isolation: 1.5kVDC
Regulated: YES
SCP: YES
 (Short Circuit Protected)

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DC-DC converters - INDUSTRIAL - 1 watt

SCP = Short Circuit Protection



| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|-------------------|-----------|-------------|------------------------------|---|-----------|------------|-----|--------|-----------------|-------|
| 1 | 1S7B_4UP | SIP7 | ±10% | 3.3; 5; 9; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24; ±5; ±9; ±12; ±15; ±24 | 4kVDC | - | • | 80% | -40°C - +105°C | - |
| 1 | 1S7B_6U | SIP7 | ±10% | 5; 9; 12; 15; 24 | 5; 9; 12; 15; 24; ±5; ±9; ±12; ±15; ±24 | 6kVDC | - | - | 80% | -40°C - +85°C | - |
| 1 | 1S7B_6UP | SIP7 | ±10% | 5; 12; 15; 24 | 3.3; 5; 12; 24; ±5; ±7.2; ±9; ±12; ±15 | 6kVDC | - | - | 82% | -40°C - +105°C | UL |
| 1 | 1S7A_1RP | SIP7 | ±10% | 5; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24 | 1kVDC | • | • | 75% | -40°C - +85°C | - |
| 1 | 1S7WA_3RP | SIP7 | 2:1 | 4.5-9; 9-18; 18-36 | 5; 9; 12; 15; 24 | 3kVDC | • | • | 83% | -40°C - +95°C | - |
| 1 | 1S7WB_3RP | SIP7 | 2:1 | 4.5-9; 9-18; 18-36 | 5; 9; 12; 15; 24 | 3kVDC | • | • | 83% | -40°C - +95°C | - |
| 1 | 1S8W_1.5RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 5; 9; 12; 15; 24; ±5; ±12; ±15 | 1.5kVDC | • | • | 79% | -40°C - +85°C | - |
| 1 | 1S8W_3RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 3.3; 5; 9; 12; 15; ±5; ±12; ±15 | 3kVDC | • | • | 81% | -40°C - +85°C | - |
| 1 | 1S8W_2RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36 | 3.3; 5; 9; 12; 15; 24; ±3.3; ±5; ±12; ±15 | 2 & 4kVDC | • | • | 81% | -40°C - +100°C | - |
| 1 | 1S8W4_2RP | SIP8 | 4:1 | 4.5-18; 9-36; 18-75 | 3.3; 5; 9; 12; 15; 24; ±3.3; ±5; ±12; ±15 | 2 & 4kVDC | • | • | 81% | -40°C - +100°C | - |
| 1 | 1T8E_1U | SMD8 | ±10% | 3.3; 5; 9; 12; 15 | 3.3; 5; 9; 12; 15 | 1kVDC | - | • | 80% | -40°C - +85°C | UL |
| 1 | 1T8B_1U | SMD8 | ±10% | 3.3; 5; 9; 12; 15 | 3.3; 5; 9; 12; 15 | 1kVDC | - | • | 80% | -40°C - +85°C | - |
| 1 | 1T8A_1.5UP | SMD8 | ±10% | 3.3; 5; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24 | 1.5kVDC | - | • | 81% | -40°C - +105°C | UL |
| 1 | 1T8A_3UP | SMD8 | ±10% | 3.3; 5; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24 | 3kVDC | - | • | 81% | -40°C - +105°C | UL |
| 1 | 1T8A_3.5UP | SMD8 | ±10% | 5 | 5 | 3.5kVDC | - | • | 81% | -55°C - +125°C | - |

NEW: Feature series



1S7WB_3RP series

Power: 1 watt

Case size: SIP7

Isolation: 3kVDC

Input range: 2:1

SCP: YES

(Short Circuit Protected)

DC-DC converters - INDUSTRIAL - 1 watt, 1.5 watt and 2 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|-------------|-----------|-------------|---------------------|---|-----------|------------|-----|-------------|-----------------|-------|
| 1 | 1T8F_4.2U | SMD8 | $\pm 10\%$ | 3.3; 5 | 3.3; 5 | 4.2kVDC | - | - | 75% | -40°C - +105°C | - |
| 1 | 1T10A_1.5UP | SMD10 | $\pm 10\%$ | 3.3; 5; 12; 15; 24 | $\pm 3.3; \pm 5; \pm 9; \pm 12; \pm 15; \pm 24$ | 1.5kVDC | - | • | 82% | -40°C - +105°C | UL |
| 1 | 1T10A_3UP | SMD10 | $\pm 10\%$ | 3.3; 5; 12; 15; 24 | $\pm 5; \pm 9; \pm 12; \pm 15; \pm 24$ | 3kVDC | - | • | 82% | -40°C - +105°C | UL |
| 1 | 1T10A_1.5RP | SMD10 | $\pm 10\%$ | 5; 12 | 5; 12; 15 | 1.5kVDC | • | • | 70% | -40°C - +85°C | - |
| 1 | 1T14A_1.5UP | SOIC-14 | $\pm 10\%$ | 5 | 5 | 1.5kVDC | - | • | 76% | -40°C - +105°C | - |
| 1 | 1T14A_3RP | SOIC-14 | $\pm 10\%$ | 5 | 5 | 3kVDC | • | • | 72% | -40°C - +85°C | - |
| 1.5 | 1.5D8A_1U | DIP8 | $\pm 10\%$ | 5 | 5 | 1kVDC | - | - | 70% | -40°C - +85°C | - |
| 2 | 2S4E_1U | SIP4 | $\pm 10\%$ | 5; 12; 15; 24; 48 | 3.3; 5; 9; 12; 15; 24 | 1kVDC | - | - | 88% | -40°C - +85°C | - |
| 2 | 2S4A_1.5UP | SIP4 | $\pm 10\%$ | 5; 24 | 5 | 1.5kVDC | - | • | 82% | -40°C - +85°C | - |
| 2 | 2S7A_1U | SIP7 | $\pm 10\%$ | 5; 12; 15; 24; 48 | 3.3; 5; 7.2; 9; 12; 15; 24; $\pm 3.3; \pm 5; \pm 7.2; \pm 12; \pm 15; \pm 18; \pm 24$ | 1kVDC | - | - | 82% | -40°C - +85°C | - |
| 2 | 2S7A_1.5UP | SIP7 | $\pm 10\%$ | 5; 12; 15; 24 | 3.3; 5; 12; 15; 24; $\pm 3.3; \pm 5; \pm 12; \pm 15; \pm 24$ | 1.5kVDC | - | • | 84% | -40°C - +105°C | UL |
| 2 | 2S7A_1RP | SIP7 | $\pm 10\%$ | 5; 12; 15; 24 | 5; 12; 15 | 1kVDC | • | • | 72% | -40°C - +85°C | - |
| 2 | 2S7B_3UP | SIP7 | $\pm 10\%$ | 5; 12; 15; 24 | 5; 12; 15; 24; $\pm 5; \pm 12; \pm 15; \pm 24$ | 3kVDC | - | • | 89% | -40°C - +105°C | UL |
| 2 | 2S7B_6UP | SIP7 | $\pm 10\%$ | 5; 12; 24 | 5; 9; 12; 15; $\pm 5; \pm 9; \pm 12; \pm 15$ | 6kVDC | - | • | 80% | -40°C - +95°C | UL |
| 2 | 2S7WA_3RP | SIP7 | 2:1 | 4.5-9; 9-18; 18-36 | 5; 9; 12; 15; 24 | 3kVDC | • | • | 83% | -40°C - +95°C | - |
| 2 | 2S7WB_3RP | SIP7 | 2:1 | 4.5-9; 9-18; 18-36 | 5; 9; 12; 15; 24 | 3kVDC | • | • | 83% | -40°C - +95°C | - |



NEW: Feature series



1T8F_4.2U series

Power: 1 watt
 Case size: SMD8
 Isolation: 4.2kVDC
 Operating temperature: -40°C - +105°C

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DC-DC converters - INDUSTRIAL - 2 watt and 3 watt

SCP = Short Circuit Protection



| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|---------------------|-----------|-------------|---------------------------|--|-----------|------------|-----|-------------|-----------------|-------|
| 2 | 2D14B_1.5UP | DIP14 | $\pm 10\%$ | 3.3; 5; 9; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24; $\pm 5; \pm 9; \pm 12; \pm 15; \pm 24$ | 1.5kVDC | - | • | 85% | -40°C - +95°C | UL |
| 2 | 2D14C_3UP | DIP14 | $\pm 10\%$ | 5; 12; 15 | 5; 9; 12; 15; 24; $\pm 5;$ $\pm 9; \pm 12; \pm 15; \pm 24$ | 3kVDC | - | • | 85% | -40°C - +95°C | UL |
| 2 | 2S8W_1RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-72 | 3.3; 5; 9; 12; 15; 24; $\pm 3.3; \pm 5; \pm 9; \pm 12;$ $\pm 15; \pm 24$ | 1 & 3kVDC | • | • | 80% | -40°C - +85°C | UL |
| 2 | 2S8W_2RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 3.3; 5; 9; 12; 15; $\pm 3.3; \pm 5; \pm 12; \pm 15$ | 2 & 4kVDC | • | • | 85% | -40°C - +100°C | - |
| 2 | 2S9W4_1.5RP | SIP9 | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; $\pm 5; \pm 9; \pm 12; \pm 15$ | 1.5kVDC | • | • | 79% | -40°C - +85°C | - |
| 2 | 2T8E_1U | SMD8 | $\pm 10\%$ | 3.3; 5; 9; 12 | 3.3; 5; 9; 12 | 1kVDC | - | - | 74% | -40°C - +85°C | - |
| 2 | 2T8A_1.5UP | SMD8 | $\pm 10\%$ | 5; 12; 15; 24 | 3.3; 5; 9; 12; 15; 24 | 1.5kVDC | - | • | 82% | -40°C - +105°C | - |
| 2 | 2T8A_3UP | SMD8 | $\pm 10\%$ | 5; 12; 15; 24 | 5; 9; 12; 15; 24 | 3kVDC | - | • | 84% | -40°C - +105°C | - |
| 2 | 2D16W_1.5RP | DIP16 | 2:1 | 9-18; 18-36 | 3.3; 5; 12; 15; $\pm 5; \pm 12; \pm 15$ | 1.5kVDC | • | • | 80% | -40°C - +85°C | - |
| 2 | 2T16WE_1.5RP | SMD16 | 2:1 | 4,5-9; 9-18; 18-36 | 3.3; 5; 12; 15; $\pm 5; \pm 12; \pm 15$ | 1.5kVDC | • | • | 80% | -40°C - +85°C | - |
| 2 | 2T16W_1.5RP | SMD16 | 2:1 | 9-18; 18-36 | 3.3; 5; 12; 15; $\pm 5; \pm 12; \pm 15$ | 1.5kVDC | • | • | 80% | -40°C - +85°C | - |
| 2 | 2T16A_6UP | SMD16 | $\pm 10\%$ | 5; 12; 24 | 3.3; 5; 9; 12; 15 | 6kVDC | - | • | 80% | -40°C - +85°C | - |
| 3 | 3MT28A_1.5UP | SMD28 | $\pm 10\%$ | 5 | 5 | 1.5kVDC | - | • | 85% | -40°C - +85°C | - |
| 3 | 3S4A_1U | SIP4 | $\pm 10\%$ | 5; 12 | 5; 9; 12; 15 | 1kVDC | - | - | 86% | -40°C - +85°C | - |
| 3 | 3S4A_1UP | SIP4 | $\pm 10\%$ | 5; 12 | 5; 9; 12; 15; 18 | 1kVDC | - | • | 86% | -40°C - +85°C | - |

NEW: Feature series



3MT28A_1.5UP

Power: 3 watt
Case size: SMD28
Isolation: 1.5kVDC
Efficiency: 85%
SCP: YES
 (Short Circuit Protected)

DC-DC converters - INDUSTRIAL - 3 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|--------------|-----------|-------------|---------------------------|--|-----------|------------|-----|-------------|-----------------|-------|
| 3 | 3S7A_1U | SIP7 | $\pm 10\%$ | 5; 12 | 5; 9; 12; 15; $\pm 5; \pm 9; \pm 12; \pm 15$ | 1kVDC | - | - | 90% | -40°C - +85°C | - |
| 3 | 3S7A_1.5UP | SIP7 | $\pm 10\%$ | 3.3; 5; 12; 24; 48 | 3.3; 5; 9; 12; 15; 24 | 1.5kVDC | - | • | 88% | -40°C - +105°C | - |
| 3 | 3S6W4_1.6RP | SIP6 | 4:1 | 4.5-18; 9-36; 18-75 | 3.3; 5; 12; 15; $\pm 5; \pm 12; \pm 15$ | 1.6kVDC | • | • | 84% | -40°C - +71°C | - |
| 3 | 3S8A_T1.5U | SIP8 | $\pm 10\%$ | 4; 5; 12 | -24; -48; -72 | 1.5kVDC | - | • | 85% | -40°C - +105°C | - |
| 3 | 3S7B_3U | SIP7 | $\pm 10\%$ | 5; 12 | 5; 9; 12; 15; $\pm 5; \pm 9; \pm 12; \pm 15$ | 3kVDC | - | - | 90% | -40°C - +85°C | - |
| 3 | 3S7B_3UP | SIP7 | $\pm 10\%$ | 3.3; 5; 12; 24 | 3.3; 5; 9; 12; 15; $\pm 5; \pm 9; \pm 12; \pm 15; \pm 24$ | 3kVDC | - | • | 87% | -40°C - +85°C | - |
| 3 | 3S8W_1.5RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 5; 9; 12; 15; $\pm 5; \pm 9; \pm 12; \pm 15$ | 1.5kVDC | • | • | 84% | -40°C - +85°C | - |
| 3 | 3S8W_1.6RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; $\pm 5; \pm 12; \pm 15$ | 1.6kVDC | • | • | 84% | -40°C - +85°C | UL |
| 3 | 3S8W_3RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 3.3; 5; 9; 12; 15; $\pm 5; \pm 9; \pm 12; \pm 15$ | 3kVDC | • | • | 83% | -40°C - +85°C | UL |
| 3 | 3S8W_2RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 3.3; 5; 9; 12; 15; $\pm 5; \pm 12; \pm 15$ | 2 & 4kVDC | • | • | 86% | -40°C - +100°C | - |
| 3 | 3S8W4_2RP | SIP8 | 4:1 | 4.5-18; 9-36; 18-75 | 3.3; 5; 12; 15; $\pm 3.3; \pm 5; \pm 12; \pm 15$ | 2 & 4kVDC | • | • | 86% | -40°C - +100°C | - |
| 3 | 3S8W_4.3PR | SIP8 | 2:1 | 7-18 | 15 | 4.3kVDC | • | • | 83% | -40°C - +105°C | - |
| 3 | 3T14W4_1.5RP | SMD14 | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; 24 | 1.5kVDC | • | • | 83% | -40°C - +85°C | UL |
| 3 | 3T16W_1.5RP | SMD16 | 2:1 | 4.5-9; 9-18; 18-36; 36-72 | 5; 12; $\pm 5; \pm 12; \pm 15$ | 1.5kVDC | • | • | 79% | -40°C - +85°C | - |
| 3 | 3DAW_1.5 | DIP24 | 2:1 | 4.5-9; 9-18; 18-36; 36-72 | 5; 9; 12; 15; 24; $\pm 9; \pm 12; \pm 15; \pm 24$ | 1.5kVDC | • | • | 81% | -40°C - +85°C | - |
| 3 | 3TAW_1.5 | SMD24 | 2:1 | 9-18; 18-36; 36-75 | 5; 12; 15; $\pm 5; \pm 12; \pm 15$ | 1.5kVDC | • | • | 85% | -40°C - +85°C | - |



NEW: Feature series



3S6W4_1.6RP

Power: 3 watt
Case size: SIP6
Isolation: 1.6kVDC
Input range: 4:1
SCP: YES
 (Short Circuit Protected)

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DC-DC converters - INDUSTRIAL - 3 watt, 5 watt and 6 watt

SCP = Short Circuit Protection



| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|--------------------|-----------|-------------|---------------------------|--|-------------|------------|-----|--------|-----------------|-------|
| 3 | 3DAW_3 | DIP24 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; 24; ±9; ±12; ±15 | 3kVDC | • | • | 86% | -40°C - +85°C | - |
| 3 | 3DAW_2 | DIP24 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ±3.3; ±5; ±12; ±15 | 2; 4; 6kVDC | • | • | 85% | -40°C - +100°C | - |
| 3 | 3DAW4_1.5 | DIP24 | 4:1 | 9-36; 18-72 | 3.3; 5; 9; 12; 15; 24 | 1.5kVDC | • | • | 83% | -40°C - +85°C | - |
| 3 | 3DAW4_2 | DIP24 | 4:1 | 4.5-18; 9-36; 18-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 2; 4; 6kVDC | • | • | 86% | -40°C - +100°C | - |
| 5 | 5S8W_2RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 2; 4kVDC | • | • | 85% | -40°C - +100°C | - |
| 5 | 5S8W4_2RP | SIP8 | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 2; 4kVDC | • | • | 85% | -40°C - +85°C | - |
| 5 | 5DAW_2 | DIP24 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 2; 4; 6kVDC | • | • | 87% | -40°C - +100°C | - |
| 5 | 5DAW4_2 | DIP24 | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; ±5; ±9; ±12; ±15 | 2; 4; 6kVDC | • | • | 85% | -40°C - +100°C | - |
| 5 | 5TAW_1.5 | SMD24 | 2:1 | 9-18; 18-36; 36-72 | 5; 12; 15; ±5; ±12; ±15 | 1.5kVDC | • | • | 85% | -40°C - +85°C | - |
| 6 | 6S8W_1.6RP | SIP8 | 2:1 | 9-18; 18-36 | 3.3; 5; 9; 12; 15; 24 | 1.6kVDC | • | • | 87% | -40°C - +85°C | UL |
| 6 | 6S8W_3RP | SIP8 | 2:1 | 4.5-9; 9-18; 18-36; 36-75 | 5; 9; 12; 15; ±5; ±12; ±15 | 3kVDC | • | • | 88% | -40°C - +85°C | - |
| 6 | 6S8W4_1.5RP | SIP8 | 4:1 | 9-36; 18-72 | 3.3; 5; 9; 12; 15; 24; ±5; ±12; ±15 | 1.5kVDC | • | • | 88% | -40°C - +85°C | - |
| 6 | 6S8W4_1.6RP | SIP8 | 4:1 | 9-36 | 3.3; 5; 9; 12; 15; 24 | 1.6kVDC | • | • | 88% | -40°C - +85°C | UL |
| 6 | 6S8W4_3RP | SIP8 | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; 24; ±5; ±12; ±15 | 3kVDC | • | • | 87% | -40°C - +85°C | - |
| 6 | 6DAW_1.5 | DIP24 | 2:1 | 9-18; 18-36; 36-72 | 5; 9; 12; 15; 24; ±9; ±12; ±15; ±24 | 1.5kVDC | • | • | 87% | -40°C - +85°C | - |
| 6 | 6D6A_1.5 | DIP | 2:1 | 9-18; 18-36 | 3.3; 5; 12; 15 | 1.5kVDC | • | • | 86% | -40°C - +85°C | - |
| 6 | 6T6A_1.5 | SMD | 2:1 | 9-18; 18-36 | 3.3; 5; 12; 15 | 1.5kVDC | • | • | 86% | -40°C - +85°C | - |

NEW: Feature series



6S8W4_3RP series

Power: 6 watt
Case size: SIP8
Isolation: 3kVDC
Regulated: YES
SCP: YES
 (Short Circuit Protected)

DC-DC converters - INDUSTRIAL - 6 watt, 7.5 watt, 8 watt and 9 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|--------------|-----------|-------------|---------------------------|--|-----------|------------|-----|-------------|-----------------|-------|
| 6 | 6DAW4_1.5 | DIP24 | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; $\pm 5; \pm 12; \pm 15$ | 1.5kVDC | • | • | 88% | -40°C - +85°C | UL |
| 6 | 6DMW_1.5 | 1"x1" | 2:1 | 9-18; 18-36 | 5; 12; 15; 24; $\pm 5; \pm 12; \pm 15$ | 1.5kVDC | • | • | 87% | -40°C - +85°C | UL |
| 6 | 6DMW4_1.5 | 1"x1" | 4:1 | 9-36; 18-75 | 5; 9; 12; 15; 24; $\pm 5; \pm 12; \pm 15; \pm 24$ | 1.5kVDC | • | • | 88% | -40°C - +85°C | UL |
| 6 | 6DAW4_S3 | DIP24 | 4:1 | 9-36; 18-72 | 3.3; 5; 9; 12; 15; 24; | 3kVDC | • | • | 88% | -40°C - +85°C | UL |
| 6 | 6DAW4_D3 | DIP24 | 4:1 | 9-36 | $\pm 5; \pm 12; \pm 15$ | 3kVDC | • | • | 86% | -40°C - +85°C | UL |
| 6 | 6DAW4_6 | DIP24 | 4:1 | 9-36; 18-72 | 5; 9; 12; 15; 24; | 6kVDC | • | • | 85% | -40°C - +85°C | - |
| 7.5 | 7.5DAW_2 | DIP24 | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 9; 12; 15; 24; $\pm 5; \pm 9; \pm 12; \pm 15; \pm 24$ | 2; 3kVDC | • | • | 87% | -40°C - +100°C | - |
| 8 | 8DPW_1.6 | DIP24 | 2:1 | 4.5-9; 9-18; 18-36; 36-72 | 3.3; 5; 12; 15; $\pm 5; \pm 12; \pm 15$ | 1.6kVDC | • | • | 86% | -40°C - +85°C | - |
| 8 | 8DPW4_1.6 | DIP24 | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; $\pm 5; \pm 12; \pm 15$ | 1.6kVDC | • | • | 86% | -40°C - +85°C | - |
| 9 | 9S8W_1.6RP | SIP8 | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 9; 12; 15; 24; $\pm 5; \pm 12; \pm 15$ | 1.6kVDC | • | • | 90% | -40°C - +85°C | - |
| 9 | 9S8W4E_1.6RP | SIP8 | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; 24; $\pm 5; \pm 12; \pm 15$ | 1.6kVDC | • | • | 89% | -40°C - +100°C | - |
| 9 | 9S8W4_1.6RP | SIP8 | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; 24; $\pm 5; \pm 12; \pm 15$ | 1.6kVDC | • | • | 89% | -40°C - +85°C | - |



NEW: Feature series



6DMW4_1.5 series

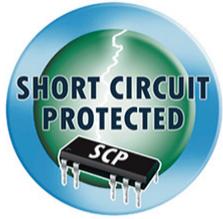
Power: 6 watt
Case size: 1"x1"
Isolation: 1.5kVDC
Regulated: YES
SCP: YES
 (Short Circuit Protected)

This Product Selection shows only the most popular converters. Please check our website in case you did not find what you were looking for or contact us directly: info@gaptec-electronic.com REV. 10/2018

www.gaptec-electronic.com

DC-DC converters - **INDUSTRIAL** - 10 watt, 12 watt and 15 watt

SCP = Short Circuit Protection



| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|------------|--------------------|-------------|---------------------|---|-----------|------------|-----|--------|-----------------|-------|
| 10 | 10DPW_1.5 | DIP24 | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 1.5kVDC | • | • | 83% | -40°C - +85°C | - |
| 10 | 10DPW4_1.5 | DIP24 | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 1.5kVDC | • | • | 83% | -40°C - +85°C | - |
| 10 | 10DMW4_1.5 | 1"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; 24; ±5; ±9; ±12; ±15; ±24 | 1.5kVDC | • | • | 88% | -40°C - +85°C | UL |
| 10 | 10D6W4_1.5 | DIP 1.54"x0.81" | 4:1 | 9-36 | 5; 12; 15 | 1.5kVDC | • | • | 88% | -40°C - +85°C | - |
| 10 | 10T6W4_1.5 | SMD 1.54"x0.81" | 4:1 | 9-36 | 5; 12; 15 | 1.5kVDC | • | • | 88% | -40°C - +85°C | - |
| 10 | 10DAW_1.5 | 2"x1" | 2:1 | 9-18; 18-36; 36-72 | 3.3; 5; 12; 15; 24; ±5; ±12; ±15; ±24 | 1.5kVDC | • | • | 88% | -40°C - +85°C | - |
| 10 | 10DAW4_1.5 | 2"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; 24; ±5; ±12; ±15 | 1.5kVDC | • | • | 87% | -40°C - +85°C | - |
| 10 | 10DAW4_3 | 2"x1" | 4:1 | 9-36; 18-75 | 3.3; 9; 5; 12; 15; 24; ±5; ±12; ±15 | 3kVDC | • | • | 88% | -40°C - +85°C | UL |
| 12 | 12DPW_1.5 | DIP24 | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 1.5kVDC | • | • | 83% | -40°C - +85°C | - |
| 12 | 12DPW4_1.5 | DIP24 | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 1.5kVDC | • | • | 83% | -40°C - +85°C | - |
| 15 | 15DPW_1.6 | DIP24 | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 1.6kVDC | • | • | 90% | -40°C - +85°C | - |
| 15 | 15DPW4_1.6 | DIP24 | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ±5; ±12; ±15 | 1.6kVDC | • | • | 90% | -40°C - +85°C | - |
| 15 | 15DMWE_1.5 | 1"x1" | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; 24 | 1.5kVDC | • | • | 91% | -40°C - +105°C | - |
| 15 | 15DMW_1.5 | 1"x1" | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ±12; ±15 | 1.5kVDC | • | • | 89% | -40°C - +85°C | - |
| 15 | 15DMW4_1.5 | 1"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ±12; ±15 | 1.5kVDC | • | • | 88% | -40°C - +85°C | - |

NEW: Feature series



10T6W4_1.5 series

Power: 10 watt
Case size: SMD 1,54"x0.81"
Isolation: 1.5kVDC
Height: Only 6.3mm
SCP: YES
 (Short Circuit Protected)

DC-DC converters - INDUSTRIAL - 15 watt, 20 watt, 30 watt and 40 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|-------------|-----------|-------------|---------------------|---|-----------|------------|-----|-------------|-----------------|-------|
| 15 | 15DAW_1.5 | 2"x1" | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; 24; ± 5 ; ± 12 ; ± 15 ; ± 24 | 1.5kVDC | • | • | 90% | -40°C - +85°C | UL |
| 15 | 15DAW4_1.5 | 2"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; 24; ± 5 ; ± 12 ; ± 15 | 1.5kVDC | • | • | 90% | -40°C - +85°C | - |
| 20 | 20DMW_1.5 | 1"x1" | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ± 12 ; ± 15 | 1.5kVDC | • | • | 90% | -40°C - +85°C | - |
| 20 | 20DMWE_1.5 | 1"x1" | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; 24 | 1.5kVDC | • | • | 91% | -40°C - +105°C | - |
| 20 | 20DMW4_1.5 | 1"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ± 12 ; ± 15 | 1.5kVDC | • | • | 90% | -40°C - +85°C | - |
| 20 | 20DMWE4_1.5 | 1"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15 | 1.5kVDC | • | • | 90% | -40°C - +85°C | - |
| 20 | 20DAW_1.5 | 2"x1" | 2:1 | 18-36; 36-75 | 3.3; 5; 12; 15; 24; ± 5 ; ± 12 ; ± 15 | 1.5kVDC | • | • | 90% | -40°C - +85°C | UL |
| 20 | 20DAW4_1.5 | 2"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; 24; ± 5 ; ± 9 ; ± 12 ; ± 15 | 1.5kVDC | • | • | 90% | -40°C - +85°C | UL |
| 20 | 20DAW4_3 | 2"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; 24 | 3kVDC | • | • | 89% | -40°C - +85°C | UL |
| 20 | 20DBW8_1.5 | 2"x1.6" | 8:1 | 6-50 | 5 | 1.5kVDC | • | • | 90% | -40°C - +85°C | - |
| 30 | 30DAW_1.5 | 2"x1" | 2:1 | 18-36; 36-75 | 3.3; 5; 12; 15; 24 | 1.5kVDC | • | • | 88% | -40°C - +85°C | - |
| 30 | 30DMW4_1.6 | 1"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ± 12 ; ± 15 | 1.6kVDC | • | • | 92% | -40°C - +75°C | - |
| 30 | 30DAW4_1.5 | 2"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ± 12 ; ± 15 | 1.5kVDC | • | • | 88% | -40°C - +85°C | UL |
| 30 | 30DBW4_1.5 | 2"x1.6" | 4:1 | 9-36; 18-75 | 3.3; 5; 9; 12; 15; 24 | 1.5kVDC | • | • | 89% | -40°C - +75°C | - |
| 40 | 40DAW_1.5 | 2"x1" | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ± 12 ; ± 15 | 1.5kVDC | • | • | 91% | -40°C - +85°C | - |
| 40 | 40DAW4_1.5 | 2"x1" | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ± 12 ; ± 15 | 1.5kVDC | • | • | 90% | -40°C - +85°C | - |
| 40 | 40DDW_1.5 | 2"x2" | 2:1 | 9-18; 18-36; 36-75 | 3.3; 5; 12; 15; ± 12 ; ± 15 | 1.5kVDC | • | • | 91% | -40°C - +85°C | - |
| 40 | 40DDW4_1.5 | 2"x2" | 4:1 | 9-36; 18-75 | 3.3; 5; 12; 15; ± 12 ; ± 15 | 1.5kVDC | • | • | 90% | -40°C - +85°C | - |



NEW: Feature series



30DMW4_1.6 series

Power: 30 watt
Case size: 1"x1"
Isolation: 1.6kVDC
Regulated: YES
SCP: YES
 (Short Circuit Protected)

DC-DC converters - INDUSTRIAL - 50, 60, 75, 100, 150 and 200 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|---------------|-----------|-------------|--------------------------|---|-----------|------------|-----|-------------|-----------------|-------|
| 50 | 50DAW_1.5 | 2"x1" | 2:1 | 18-36; 36-75 | 3.3; 5; 12; 15; 24 | 1.5kVDC | • | • | 93% | -40°C - +85°C | - |
| 50 | 50QBTW12_2.25 | Q-Brick | 12:1 | 9-36; 9-75; 14-154 | 5; 12; 15; 24; ± 12 ; ± 15 ; ± 24 | 3kVDC | • | • | 90% | -40°C - +115°C | - |
| 60 | 60DAW4_1.6 | 2"x1" | 4:1 | 9-36; 18-75 | 5; 12; 15; ± 5 ; ± 12 ; ± 15 | 1.6kVDC | • | • | 92,5% | -40°C - +85°C | - |
| 60 | 60DAW_1.6 | 2"x1" | 2:1 | 18-36; 36-72 | 3.3; 5; 12; 15 | 1.6kVDC | • | • | 91% | -40°C - +85°C | - |
| 60 | 60DDW_1.5 | 2"x2" | 2:1 | 18-36; 36-75 | 3.3; 5; 12; 15 | 1.5kVDC | • | • | 90% | -40°C - +70°C | - |
| 60 | 60DDW_3 | 2"x2" | 2:1 | 9-18; 18-36; 36-75 | 5; 12; 15; ± 5 ; ± 12 ; ± 15 | 3kVDC | • | • | 88% | -40°C - +80°C | - |
| 60 | 60DDW4_3 | 2"x2" | 4:1 | 9-36; 18-75 | 5; 12; 15; ± 5 ; ± 12 ; ± 15 | 3kVDC | • | • | 88% | -40°C - +80°C | - |
| 75 | 75QBW4_2.25 | Q-Brick | 4:1 | 18-75 | 5; 12; 15; 24; 48 | 2.25kVDC | • | • | 93% | -40°C - +85°C | - |
| 100 | 100HBAW_1.5 | H-Brick | 2:1 ; 4:1 | 9-18; 18-36; 9-36; 18-72 | 3.3; 5; 12; 15; 24; 48 | 1.5kVDC | • | • | 80% | -25°C - +85°C | - |
| 100 | 100QBW4_2.25 | Q-Brick | 4:1 | 18-75 | 5; 12; 15; 24; 48 | 2.25kVDC | • | • | 94% | -40°C - +85°C | - |
| 150 | 150HB4_1.5 | H-Brick | 4:1 | 18-72 | 28; 48 | 1.5kVDC | • | • | 80% | -25°C - +85°C | - |
| 150 | 150QBW4_2.25 | Q-Brick | 4:1 | 18-75 | 12; 24; 48 | 2.25kVDC | • | • | 94% | -40°C - +85°C | - |
| 200 | 200QBW4_2.25 | Q-Brick | 4:1 | 18-75 | 12; 24; 48 | 2.25kVDC | • | • | 91% | -40°C - +85°C | - |

NEW: Feature series



200QBW4_2.25

Power: 200 watt

Case size: Q-Brick

Isolation: 2.25kVDC

Regulated: YES

SCP: YES

(Short Circuit Protected)

LM078_XX-3.0 SERIES: 3A. CTRL PIN. TRIM-PIN. UP TO 30VIN DC.



DC-DC IGBT & SiC power modules

Our brand new regulated DC-DC power modules series - especially designed for driving IGBT and SiC drivers - can be widely used in frequency transformers, AC servo control systems, welding equipment and UPS (uninterruptible power supplies). Specially tailored to meet the IGBT & SiC driver technology standard, those power modules offer a wide range of protection features - such as: output overvoltage protection and (SCP) continuous short circuit protection, that grant a safe operation. High isolation up to 6kVDC, isolated outputs and an operating temperature range from -40°C to +105°C meet all the safety requirements for SiC drivers. The power modules are designed according to EN60950 & IEC 60950 requirements. GAPTEC Electronic offers customers short lead times and a 3-year warranty.

DC-DC LED drivers

Our constant current DC-DC LED drivers offer a very wide input voltage range to guarantee a constant light level throughout the life span of driving LED's. Possible applications can be found in the consumer & the industrial area. Selected types offer the option/ability to either use the analogue or the PWM dimming mode. The selected small case sizes (micro DIP, DIP24 or the SMD16 housing for SMT processing) allow currents of 300 - 1200mA and meet the EN55015 Standard with the already built-in EMI filter. Continuous short circuit protection (SCP) and high efficiencies up to 97% ensure a long life and very high MTBF values. GAPTEC Electronic offers customers short lead times and a 3-year warranty.



DC-DC Power Modules Series - designed for driving IGBT and SiC drivers in frequency transformers, AC servo control systems, welding equipment and UPS.



High efficient DC-DC LED driver in miniature dimensions. Now available at GAPTEC Electronic.

DC-DC converters - PHOTOVOLTAIC - 5 watt, 10 watt, 15 watt and 40 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|-----------------|------------------------|-------------|---------------------|----------------------|-----------|------------|-----|-------------|-----------------|-------|
| 5 | 5DCP_4 | DIP 74.0 x 52.0 mm | wide | 200 - 1200 | 5 | 4kVDC | • | • | 83% | -40°C - +75°C | - |
| 10 | 10DCP_4 | DIP 74.0 x 52.0 mm | wide | 200 - 1200 | 5; 9; 24 | 4kVDC | • | • | 83% | -40°C - +75°C | - |
| 10 | 10DCPW_4 | DIP 125.0 x 75.0 mm | wide | 200 - 1500 | 5 | 4kVDC | • | • | 68% | -40°C - +70°C | - |
| 15 | 15DCP_4 | DIP 70.0 x 48.0 mm | wide | 100 - 1200 | 12; 15; 24 | 4kVDC | • | • | 80% | -40°C - +70°C | - |
| 15 | 15DCPW_4 | DIP 125.0 x 75.0 mm | wide | 200 - 1500 | 12; 15; 24 | 4kVDC | • | • | 74% | -40°C - +70°C | - |
| 40 | 40DCP_4 | DIP 89.0 x 63.5 mm | wide | 200 - 1200 | 12; 15; 24 | 4kVDC | • | • | 84% | -40°C - +70°C | - |
| 40 | 40DCPW_4 | DIP 125.0 x 75.0 mm | wide | 200 - 1500 | 12; 15; 24 | 4kVDC | • | • | 81% | -40°C - +70°C | - |

NEW: Feature series



5DCP_4 series

Power: 5 watt
Case size: DIP
Isolation: 4kVDC
Regulated: YES
SCP: YES
 (Short Circuit Protected)

DC-DC converters - IGBT & SiC - 1.8 - 7.2 watt

| | | | | | | | | | | | |
|-----|---------------------|-------|-----------------|-------------|--|---------------|---|---|-----|----------------|----|
| 1.8 | 18S7BT_D6 | SIP7 | +/-10%; 9-15 | 12; 15; 24 | +15/-8.5; +9; +9/-9; +17 -8.7; +15/-8.7; +15/-8 | 3kVAC/6kVDC | • | • | 80% | -40°C - +105°C | UL |
| 3.6 | 36DBT_S12 | 2"x1" | +/-10% | 15 | 24 | 12kVDC | • | • | 80% | -40°C - +85°C | - |
| 4.8 | 48DBT_D6 | DIP24 | +/-10% | 12; 24 | +15/-9 | 3kVAC/6kVDC | • | • | 83% | -40°C - +105°C | - |
| 4.8 | 48DBT_D4 | DIP24 | +/-10% | 15 | +15/-9 | 4kVDC | • | • | 87% | -40°C - +85°C | - |
| 4.8 | 48DWBT_D3 | DIP24 | 2:1 | 9-18; 18-36 | +15/-9 | 3kVDC | • | • | 85% | -40°C - +85°C | - |
| 7.2 | 72DW4BT_D4.2 | DIP24 | 4:1 | 9-36 | 24/24 | 4.2kVDC | • | • | 85% | -40°C - +85°C | - |
| 2.4 | 24S7SiC_D6 | SIP7 | +/-10% | 12; 15; 24 | +20/-4; +15/-3.5; +15/-5 | 3.5kVAC/6kVDC | • | • | 83% | -40°C - +105°C | - |

DC-DC converters - RAILWAY - 6, 8, 10, 15, 20, 50, 75 and 100 watt

SCP = Short Circuit Protection

| Power | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-------|-------------|-----------|-------------|---------------------|---|-----------|------------|-----|-------------|-----------------|-------|
| 6 | 6DMRW4_2.25 | 1"x1" | 4:1 | 40-160 | 5; 12; 15; 24 | 2.25kVDC | • | • | 86% | -40°C - +85°C | - |
| 8 | 8DPRW4_3 | DIP24 | 4:1 | 13-70; 42-176 | 3.3; 5; 12; 15; ± 5 ; ± 12 ; ± 15 | 3kVDC | • | • | 86% | -40°C - +85°C | - |
| 10 | 10DRW4_2.25 | 2"x1" | 4:1 | 40-160 | 3.3; 5; 12; 15; 24 | 2.25kVDC | • | • | 85% | -40°C - +85°C | - |
| 15 | 15DRW4_2.25 | 2"x1" | 4:1 | 40-160 | 3.3; 5; 12; 15; 24 | 2.25kVDC | • | • | 86% | -40°C - +85°C | - |
| 20 | 20DRW4_2.25 | 2"x1" | 4:1 | 40-160 | 3.3; 5; 12; 15; 24 | 2.25kVDC | • | • | 86% | -40°C - +85°C | - |
| 50 | 50QBR_3 | Q-Brick | wide | 66-160 | 24 | 3kVDC | • | • | 92% | -40°C - +100°C | - |
| 75 | 75QBR_3 | Q-Brick | wide | 66-160 | 24 | 3kVDC | • | • | 92% | -40°C - +100°C | - |
| 100 | 100QBR_3 | Q-Brick | wide | 66-160 | 24 | 3kVDC | • | • | 92% | -40°C - +100°C | - |



NEW: Feature series



8DPRW4_3 series

Power: 8 watt
Case size: DIP24
Isolation: 3kVDC
Regulated: YES
SCP: YES
 (Short Circuit Protected)

NEW!
Highly efficient
Miniature LED Drivers
300mA up to 1,200mA
Various Models



- Efficiency up to 96%
- Ripple & Noise (<100mV)
- Short Circuit Protected (SCP)
- PWM and Analogue Dimming
- Built-in EMI-Filter (EN55015)
- Remote ON/OFF-Function (IP67-Level)



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DC-DC converters - non isolated - switching regulators point of load and power over ethernet

Our DC-DC converters (POL & PoE) are trusted by OEMs and used in long-time stand-by battery, handheld equipment and portable devices. Those converters are designed as an alternative to replace triple-port linear regulators. Our point of load switching regulators meet the most important specifications in terms of output voltage ripple, low noise, high density, high efficiency (up to 96%), wide operating temperature range (up to -40 °C to + 85 °C). GAPTEC has a broad range of DC-DC converters, with output current that ranges from 1 watt to 16 amperes. Products are available as board mount and chassis mount. GAPTEC Electronic offers customers short lead times and a 3-year warranty.

NEW: Feature series



LMT78_1.0R series

Input voltage: 4.75-36 VDC

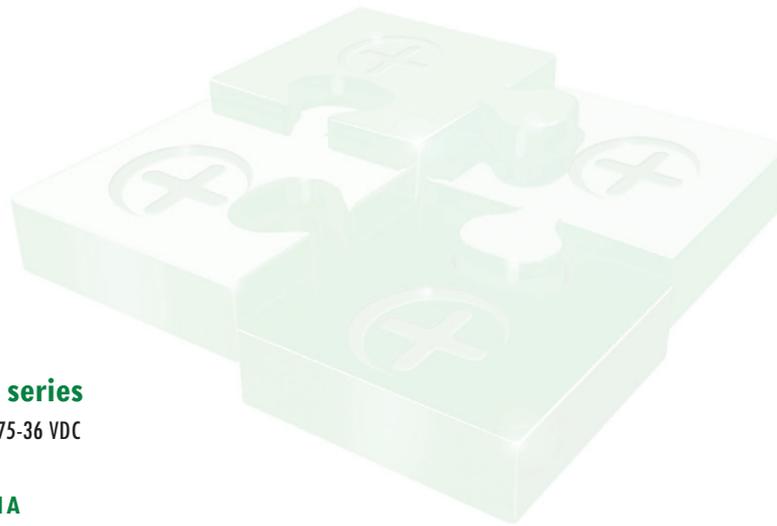
Non isolated: YES

Output current: 1A

Short Circuit Protected (SCP): YES

Case size: SMD

GAPTEC Green Power Technology



The brand new GAPTEC isolated surface mount DC-DC converters series POE_48 is ideal for IEEE 802.3at compliant devices. The converters have an input range of 36-57VDC with a typical efficiency of 84% and up to 30 watts power. The modules feature self protection including input under voltage lockout and output current limit using the hiccup auto-restart technique. In the network device market, more and more products are equipped with PoE (power over ethernet) to eliminate the need for AC power and to reduce cabling. Applications include wireless access points, network security cameras, and IP telephones.



DC-DC converters - STEP DOWN REGULATORS - 0.5A and 1.0A

SCP = Short Circuit Protection

| Power (A) | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (A) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-----------|------------|--------------------|-------------|---------------------|--|--------------------|--------------|------------|-----|-------------|-----------------|-------|
| 0.5 | LC78_0.5 | SIP3 | wide | 4.75-28 | 3.3; 5; 12 | 0.5 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 0.5 | LMT78_0.5 | SMD | wide | 4.5-28 | 3.3; 5; 9; 12; 15 | 0.5 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 0.5 | LMT78_0.5R | SMD | wide | 4.75-36 | 1.5; 1.8; 2.5; 3.3; 5; 6.5; 9; 12; 15 | 0.5 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 0.5 | LMS78_0.5 | SIP3 | wide | 4.75 - 32 | 1.5; 1.8; 2.5; 3.3; 5; 5.2; 6.5; 9; 12; 15 | 0.5 | Non-isolated | • | • | 96% | -40°C - +85°C | - |
| 0.5 | LMS78_0.5R | SIP3 | wide | 4.75 - 36 | 3.3; 5; 9; 12; 15 | 0.5 | Non-isolated | • | • | 96% | -40°C - +85°C | UL |
| 0.5 | LMO78_0.5 | SIP3 open frame | wide | 4.75 - 36 | 3.3; 5; 12; 15 | 0.5 | Non-isolated | • | • | 93% | -40°C - +85°C | UL |
| 0.5 | LCN78_0.5 | SIP3 | wide | 4.5-42 | 3.3; 5; 12 | 0.5 | Non-isolated | • | • | 96% | -40°C - +85°C | - |
| 0.5 | LCP78_0.5 | SIP3 | wide | 4.5-42 | 3.3; 5 | 0.5 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 0.5 | LCB78_0.5 | SIP3 | wide | 4.5-55 | 3.3; 5 | 0.5 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 0.5 | LMW78_0.5 | SIP3 | wide | 9-72 | 3.3; 5; 6.5; 9; 12; 15; 24 | 0.5 | Non-isolated | • | • | 95% | -40°C - +85°C | UL |
| 0.5 | LCW78_0.5 | SIP3 | wide | 9-75 | 3.3; 5; 6.5; 9; 12; 15 | 0.5 | Non-isolated | • | • | 89% | -40°C - +85°C | - |
| 1 | LMT78_1.0 | SMD | wide | 4.75-18 | 3.3; 5 | 1.0 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 1 | LMT78_1.0R | SMD | wide | 4.75-36 | 1.5; 1.8; 2.5; 3.3; 5; 6.5; 9; 12; 15 | 1.0 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 1 | LCE78_1.0 | SIP3 | wide | 4.75-28 | 3.3; 5 | 1.0 | Non-isolated | • | • | 85% | -40°C - +75°C | - |
| 1 | LME78_1.0 | SIP3 | wide | 6-36 | 3.3; 5; 9; 12; 15 | 1.0 | Non-isolated | • | • | 96% | -40°C - +85°C | - |
| 1 | LMO78_1.0 | SIP3 open frame | wide | 6-36 | 3.3; 5; 12; 15 | 1.0 | Non-isolated | • | • | 94% | -40°C - +85°C | UL |
| 1 | LMT078_1.0 | SMD open frame | wide | 3-5,5; 4,6-36 | 1,2; 1,5; 1,8; 2,5; 3,3; 5; 6,5; 9;12;15 | 1.0 | Non-isolated | • | • | 94% | -40°C - +85°C | - |
| 1 | LMS78_1.0R | SIP3 | wide | 6-36 | 3.3; 5; 9; 12; 15 | 1.0 | Non-isolated | • | • | 94% | -40°C - +85°C | UL |
| 1 | LC78_1.0 | SIP3 | wide | 4.5-42 | 3.3; 5; 12 | 1.0 | Non-isolated | • | • | 93% | -40°C - +85°C | - |
| 1 | LMP78_1.0 | SIP3 | wide | 4.5-42 | 1.2; 1.5; 1.8; 2.5; 3.3; 5; 6.5; 9; 12; 15 | 1.0 | Non-isolated | • | • | 97% | -40°C - +85°C | - |



NEW: Feature series



LMT078_1.0 series

Input voltage: 3-5,5; 4,6-36

Non isolated: YES

Output current: 1A

SCP: YES
(Short Circuit Protected)

Case size: SMD open frame

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DC-DC converters - STEP DOWN REGULATORS - 1.5, 2, 3, 6, 10 and 16A

SCP = Short Circuit Protection



| Power (A) | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (A) | Isolation | Regulation | SCP | η max. | Operating Temp. | Cert. |
|-----------|-----------|-----------|-------------|---------------------|----------------------------|--------------------|--------------|------------|-----|--------|-----------------|-------|
| 1.5 | LMS78_1.5 | SIP3 | wide | 4.75-18 | 1.5; 1.8; 2.5; 3.3; 5; 6.5 | 1.5 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 1.5 | LMP78_1.5 | SIP3 | wide | 6-36 | 3.3; 5 | 1.5 | Non-isolated | • | • | 88% | -40°C - +85°C | - |
| 2 | LMS78_2.0 | SIP3 | wide | 4.75-18 | 1.5; 1.8; 2.5; 3.3; 5; 6.5 | 2.0 | Non-isolated | • | • | 92% | -40°C - +85°C | - |
| 2 | LC78_2.0 | SIP3 | wide | 4.5-30 | 1.8; 2.5; 3.3; 5; 12 | 2.0 | Non-isolated | • | • | 94% | -40°C - +85°C | - |
| 2 | LCW78_2.0 | SIP3 | wide | 4.5-36 | 1.8; 2.5; 3.3; 5 | 2.0 | Non-isolated | • | • | 90% | -40°C - +85°C | - |
| 3 | LC78_3.0 | SIP3 | wide | 4.5-28 | 1.8; 2.5; 3.3; 5 | 3.0 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 3 | LMO78_3.0 | SIP5 | wide | 4.5-14; 10-30 | 0.59-6; 3-6; 5-15 | 3.0 | Non-isolated | • | • | 95% | -40°C - +85°C | - |
| 6 | LOS_6 | SIP | wide | 2.4-5.5; 8.3-14 | 0.75-3.3; 0.75-5 | 6 | Non-isolated | • | • | 93% | -40°C - +85°C | - |
| 10 | LOT_10 | SMD | wide | 8.3-14 | 0.75-5.0 | 10 | Non-isolated | • | • | 94% | -40°C - +85°C | - |
| 16 | LOS_16 | SIP | wide | 8.3-14 | 0.75-5.0 | 16 | Non-isolated | • | • | 92% | -40°C - +85°C | - |
| 16 | LOT_16 | SMD | wide | 8.3-14 | 0.75-5.0 | 16 | Non-isolated | • | • | 92% | -40°C - +85°C | - |

NEW: Feature series



LOS_6 series

Input voltage: 2.4-5.5; 8.3-14
Non isolated: YES
Output current: 6A
SCP: YES
 (Short Circuit Protected)
Case size: SIP

DC-DC converters - POWER OVER ETHERNET - 10 watt and 30 watt

| | | | | | | | | | | | | |
|----|------------|-----|------|-------|------------|----|--------------|---|---|-----|---------------|---|
| 10 | POE_48-10A | SIP | wide | 36-57 | 3.3; 5; 12 | 10 | Non-isolated | • | • | 84% | -40°C - +85°C | - |
| 10 | POE_48-10B | SIP | wide | 36-57 | 3.3; 5; 12 | 10 | Non-isolated | • | • | 84% | -40°C - +85°C | - |
| 30 | POE_48-30 | SIP | wide | 36-57 | 5; 12 | 30 | Non-isolated | • | • | 85% | -40°C - +85°C | - |

DC-DC converters - LED DRIVERS - 0.3A - 1.2A

SCP = Short Circuit Protection

| Power (A) | Series | Case Size | Input Range | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (A) | Isolation | Regulation | SCP | η max. | Operating Temp. | Dimming |
|-----------|----------|------------------------|-------------|---------------------|----------------------|--------------------|--------------|------------|-----|-------------|-----------------|----------------|
| 0.3 - 0.7 | LEDD10 | DIP 22.8 x 10.2 mm | wide | 5.5 - 48 | 3.3 - 36 | 0.3 - 0.7 | Non-isolated | • | • | 95% | -40°C - +85°C | Analogue & PWM |
| 0.3 - 0.7 | LEDD10_A | DIP 22.8 x 10.2 mm | wide | 5.5 - 48 | 3.3 - 36 | 0.3 - 0.7 | Non-isolated | • | • | 95% | -40°C - +85°C | Analogue |
| 0.3 - 0.7 | LEDD10_P | DIP 22.8 x 10.2 mm | wide | 5.5 - 48 | 3.3 - 36 | 0.3 - 0.7 | Non-isolated | • | • | 95% | -40°C - +85°C | PWM |
| 0.3 - 0.7 | LEDW10 | DIP 22.3 x 12.55 mm | wide | 5.5 - 48 | 3.3 - 36 | 0.3 - 0.7 | Non-isolated | • | • | 96% | -40°C - +85°C | Analogue & PWM |
| 0.3 - 0.7 | LEDW10_A | DIP 22.3 x 12.55 mm | wide | 5.5 - 48 | 3.3 - 36 | 0.3 - 0.7 | Non-isolated | • | • | 96% | -40°C - +85°C | Analogue |
| 0.3 - 0.7 | LEDW10_P | DIP 22.3 x 12.55 mm | wide | 5.5 - 48 | 3.3 - 36 | 0.3 - 0.7 | Non-isolated | • | • | 96% | -40°C - +85°C | PWM |
| 0.3 - 0.7 | LEDT16 | SMD16 | wide | 5.5 - 48 | 3.3 - 36 | 0.3 - 0.7 | Non-isolated | • | • | 96% | -40°C - +85°C | Analogue & PWM |
| 0.5 - 1.0 | LEDD16 | DIP16 | wide | 7 - 30 | 2 - 28 | 0.5 - 1.0 | Non-isolated | • | • | 95% | -40°C - +85°C | Analogue & PWM |
| 1.0 - 1.2 | LEDD24 | DIP24 | wide | 5.5 - 48 | 3.3 - 36 | 1.0 - 1.2 | Non-isolated | • | • | 97% | -40°C - +85°C | Analogue & PWM |
| 1.0 - 1.2 | LEDD24_A | DIP24 | wide | 5.5 - 48 | 3.3 - 36 | 1.0 - 1.2 | Non-isolated | • | • | 97% | -40°C - +85°C | Analogue |
| 1.0 - 1.2 | LEDD24_P | DIP24 | wide | 5.5 - 48 | 3.3 - 36 | 1.0 - 1.2 | Non-isolated | • | • | 97% | -40°C - +85°C | PWM |

NEW: Feature series



LEDT16 series

Input voltage: 5.5 - 48

Non isolated: YES

Output current: 0.35 - 0.7A

SCP: YES
(Short Circuit Protected)

Case size: SMD16



AC-DC Modules for DIN Rail and Housing Applications

- Energy efficient
- Universal AC input range
- Highly cost-effective
- Short circuit protection
- Built-in active PFC
- TS-35/7.5 and TS-35/15 certified

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RJ45 Inline coupler jacks



| Series | Tap Up | Tap Down | Vertical 180° | SMD | CAT5/CAT6 UTP | Base-T 10 | Base-T 10/100 | Base-T 10/100/1000 | Base-T 100/1000 | Base-TX 100/1000 | Base-T 10/100/1000/10G | LED | Mechanical | UL-60950 |
|--------------|--------|----------|---------------|-----|---------------|-----------|---------------|--------------------|-----------------|------------------|------------------------|-----|------------|----------|
| GRJ45UV_T100 | • | - | • | - | - | - | • | - | - | - | - | • | A | - |
| GRJ45D_T1K | - | • | - | - | - | - | - | - | • | - | - | • | A/B | • |
| GRJ45UC_T1K | • | - | - | - | • | - | - | - | • | - | - | • | A | - |
| GRJ45UC_10G | • | - | - | - | • | - | - | - | • | - | • | • | A | - |
| GRJ45UT_T100 | • | - | - | • | - | - | • | - | - | - | - | • | A | • |
| GRJ45D_T10 | - | • | - | - | - | - | - | - | - | - | - | • | A/B/C/D | - |
| GRJ45U_T1K | • | - | - | - | - | - | - | • | - | - | - | • | A/B | • |
| GRJ45U_TX1K | • | - | - | - | • | - | - | - | - | • | - | • | A/B | • |
| GRJ45D_T100 | - | • | - | - | - | - | • | - | - | - | - | • | A/B | - |

NEW: Feature series



GRJ45UC_T1K

Tap Up: YES
CAT5/CAT6: UTP
Base-T: 100/1000
LED: YES
Mechanical: A

NEW!
The New LMO78-Series
0,5A and 1A Versions

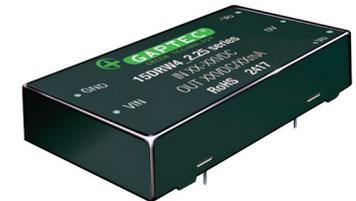
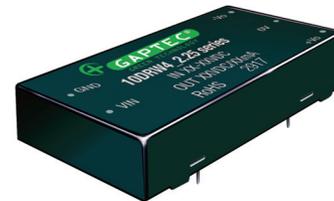
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- Very low no-load power consumption
- The alternative to discrete solutions

DC-DC converters for Railway Vehicle Applications

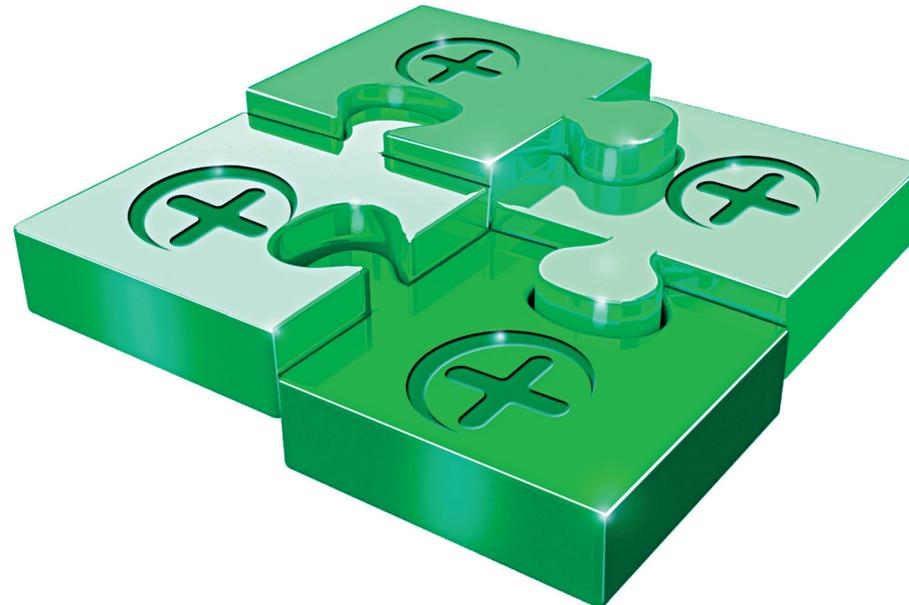
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- Meets requirements of **EN50155** standard
- High isolation voltage **2250VDC**
- Meets requirements of **IEC60950** standard
- Protection functions: **OVP, OLP, UVP and SCP**
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