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Quick Selection Guide

Edition 2009

DC-DC Converters

Partner for high quality electronics

Autronic
Steuer- und Regeltechnik / Sachsenheim

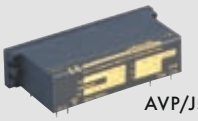
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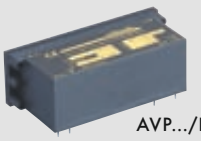
DC-DC Converters

AVP-Series

PCB Mounting


AVP/J


AVP/Jsp


AVP.../Ksp


AVP.../K

PCB Mounting

- Isolated
- Single, dual, bipolar and triple output
- CE marked
- Burst transients according to EN 61000-4-4
- Surge according to EN 61000-4-5
- Conducted immunity according to EN 61000-4-6
- Electrostatic discharge according to EN 61000-4-2
- Conducted RFI:
  - Input filtering according to EN 55022
- According to Railway Standard EN 50155 and EN 50121-3-2
- Vibration resitant and indifferent to humidity due to encapsulated case

max. Output Power (W)	36	41	42	51
Type	AVP-3	AVP-2	AVP	AVP-2
Case	Ksp	D/K	J	B/K
Dimensions (LxWxH) in mm	103.5x46x35	90.5x65.5x35	90.5x65.5x25	90.5x65.5x35
Outputs	3	2	1	2
Output Voltages (VDC)	+5, ±12/+5, ±15	5, 12/5, 15	5/12/15/24/30	±12/±15
Input Voltage Ranges (VDC)	9-40/15-36/ 32-74/66-154	9-40/15-36/ 32-74/66-154	5-36/9-40/15-36/ 32-74/43-101/ 66-154	9-40/15-36/ 32-74/66-154
Operating Temperature in °C	-40 up to +85	-40 up to +85	-40 up to +85	-40 up to +85

max. Output Power (W)	47	51	53	75
Type	AVP-2	AVP-2	AVP	AVP
Case	D/Ksp	B/Ksp	Jsp	K
Dimensions (LxWxH) in mm	103.5x46x35	103.5x46x35	103.5x46x25	90.5x65.5x35
Outputs	2	2	1	1
Output Voltages (VDC)	5, 12/5, 15	±12/±15	5/12/15/24/30	3.3/5/12/ 15/24/30
Input Voltage Ranges (VDC)	9-40/15-36/ 32-74/66-154	9-40/15-36/ 32-74/66-154	5-36/9-40/ 15-36/32-74/ 66-154	5-36/9-40/ 15-36/32-74/ 43-101/66-154
Operating Temperature in °C	-40 up to +85	-40 up to +85	-40 up to +85	-40 up to +85

max. Output Power (W)	78
Type	AVP
Case	Ksp
Dimensions (LxWxH) in mm	103.5x46x35
Outputs	1
Output Voltages (VDC)	3.3/5/12 15/24/30
Input Voltage Ranges (VDC)	5-36/9-40/15-36/ 19-51/32-74/ 43-101/66-154
Operating Temperature in °C	-40 up to +85

ACR45-Series

PCB Mounting

NEW


ACR45

PCB Mounting

- Isolated
- Single
- CE marked
- According to Railway Standard EN 50155 and EN 50121-3-2

max. Output Power (W)	45
Type	ACR
Case	ACR 45
Dimensions (LxWxH) in mm	50.8x50.8x11
Outputs	1
Output Voltages (VDC)	5/12/15/24
Input Voltage Ranges (VDC)	9-36/14,4-40/ 43-101/66-154
Operating Temperature in °C	-40 up to +85

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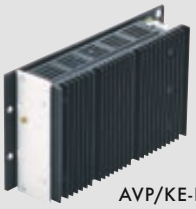
DC-DC Converters

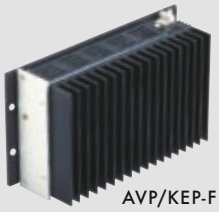
AVP-Series

Chassis Mounting


AVP/Js


AVP.../Ks


AVP/KE-F
(AVP-3/KEP-F)


AVP/KEP-F

Chassis Mounting

- Isolated
- Single, dual, bipolar and triple output
- CE marked
- Burst transients according to EN 61000-4-4
- Surge according to EN 61000-4-5
- Conducted immunity according to EN 61000-4-6
- Electrostatic discharge according to EN 61000-4-2
- Conducted RFI:
  - Input filtering according to EN 55022
- According to Railway Standard EN 50155 and EN 50121-3-2
- Case option C: for chassis mounting on power loss dissipating metal surface (heat sink)
- Case option F: for chassis mounting on no power loss dissipating surface

max. Output Power (W)	36	47	51	53
Type	AVP-3	AVP-2	AVP-2	AVP
Case	Ks	D/Ks	B/Ks	Js
Dimensions (LxWxH) in mm	113x46x35	113x46x35	113x46x35	113x46x25
Outputs	3	2	2	1
Output Voltages (VDC)	+5, ±12/+5, ±15	5, 12/5, 15	±12/±15	5/12/15/24/30
Input Voltage Ranges (VDC)	9-40/15-36/ 32-74/66-154	9-40/15-36/ 32-74/66-154	9-40/15-36/ 32-74/66-154	5-36/9-40/15-36/ 32-74/66-154
Operating Temperature in °C	-40 up to +85	-40 up to +85	-40 up to +85	-40 up to +85

max. Output Power (W)	78	87	87	100
Type	AVP	AVP-3	AVP-3	AVP
Case	Ks	KEP-F	KEP-C	KE-F
Dimensions (LxWxH) in mm	113x46x35	200x49x112	200x39x112	200x49x112
Outputs	1	3	3	1
Output Voltages (VDC)	3.3/5/12/ 15/24/30	+5, ±12/+5, ±15	+5, ±12/+5, ±15	5/12/15/24
Input Voltage Ranges (VDC)	5-36/9-40/ 15-36/19-51/32-74/ 43-101/66-154	15-36/32-74/ 66-154	15-36/32-74/ 66-154	9-40/15-36/ 19-51/32-74/ 43-101/66-154
Operating Temperature in °C	-40 up to +85	-40 up to +85	-40 up to +85	-40 up to +85

max. Output Power (W)	100	200	200
Type	AVP	AVP	AVP
Case	KE-C	KEP-F	KEP-C
Dimensions (LxWxH) in mm	200x39x112	200x64.6x112	200x43.6x112
Outputs	1	1	1
Output Voltages (VDC)	5/12/15/24	12/15/24	12/15/24
Input Voltage Ranges (VDC)	9-40/15-36/ 19-51/32-74/ 43-101/66-154	15-36/19-51/ 43-101/66-154	15-36/19-51/ 43-101/66-154
Operating Temperature in °C	-40 up to +85	-40 up to +85	-40 up to +85

HFBC-Series

Chassis Mounting

NEW


HFBC

Chassis Mounting

- Isolated
- Single and dual output
- CE marked
- 10 ms hold up time
- According to Railway Standard EN 50155 and EN 50121-3-2

max. Output Power (W)	55	60
Type	HFBC-2DW/0	HFBC-W/0
Case		
Dimensions (LxWxH) in mm	146x100x32	146x100x32
Outputs	2	1
Output Voltages (VDC)	5,12	24
Input Voltage Ranges (VDC)	14,4-154	14,4-154
Operating Temperature in °C	-40 up to +85	-40 up to +85

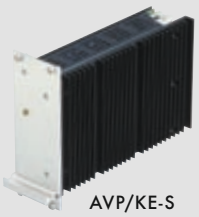
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AVP-Series

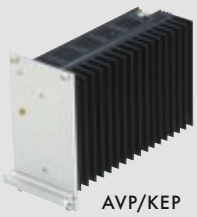
Standard euro-rack size 19“



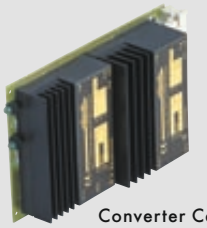
AVP/KE
(AVP-3/KEP)



AVP/KE-S
(AVP-3/KEP-S...)



AVP/KEP



Converter Card
(Assembly example)

Standard euro-rack size 19“

- Isolated
- Single, dual and triple output
- Electrostatic discharge according to EN 61000-4-2
- Fast transients (Burst) according to EN 61000-4-4
- Surge according to EN 61000-4-5
- Conducted RFI:
  - Input filtering according to EN 55022 (class B)
- According to Railway Standard EN 50155 and EN 50121-3-2
- Zero load operation and short circuit protection
- Overtemperature shutdown
- Remote off (inhibit) with TTL - L-signal
- Overvoltage protection in the output circuit, even in case of external supply (OVP)
- Reverse polarity protection by internal fuse
- Fully integrated heatsink provides extremely low thermal stress to temperature sensitive components
- Yellow LED to indicate operating mode
- Coated assembly
- Coated and glued parts for better vibration resistance
- Case option S: for sub racks with closed backplane
- Case option SB: for sub racks with closed backplane, metal sheet instead of front panel
- Frontplate 8 HP, 10 HP and 14 HP/3U (see table)

max. Output Power (W)	87	87
Type	AVP-3	AVP-3
Case	KEP	KEP-S|SB
Dimensions (LxWxH) in mm	190x40.2x112	167.7x50.4x112
Outputs	3	3
Output Voltages (VDC)	+5, ±12/+5, ±15	+5, ±12/+5, ±15
Input Voltage Ranges (VDC)	15-36/ 32-74/66-154	15-36/ 32-74/66-154
Operating Temperature in °C	-40 up to +85	-40 up to +85

max. Output Power (W)	100	100	200
Type	AVP	AVP	AVP
Case	KE	KE-S	KEP
Dimensions (LxWxH) in mm	190x40.2x112	167.7x50.4x112	169.4x70.7x112
Outputs	1	1	1
Output Voltages (VDC)	5/12/15/24	5/12/15/24	12/15/24
Input Voltage Ranges (VDC)	9-40/15-36/ 19-51/32-74/ 43-101/66-154	9-40/15-36/ 19-51/32-74/ 43-101/66-154	15-36/19-51/ 43-101/66-154
Operating Temperature in °C	-40 up to +85	-40 up to +85	-40 up to +85

max. Output Power (W)	200	200	200	200
Type	Converter Card	Converter Card	Converter Card	Converter Card
Case	QD	MD	PD	SD
Dimensions (LxWxH) in mm	100x160	100x160	100x160	100x160
Outputs	4	1-3	1	2
Output Voltages (VDC)	depending on model	depending on model	depending on model	depending on model
Input Voltage Ranges (VDC)	depending on model	depending on model	depending on model	depending on model
Operating Temperature in °C	depending on model	depending on model	depending on model	depending on model

For complete data sheets, visit www.autronic.de

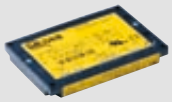
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DC-DC Converters

Qone-Series

PCB Mounting


Qone HPC


Qone LPC


Qone HSC


Qone LSC

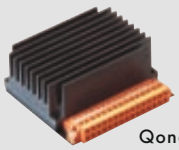
PCB Mounting

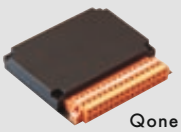
- Isolated
- Single output
- CE and UL-certified
- High power density
- Integrated heat sink (HPC, HSC) which reduces thermal resistance
- Overtemperature and overvoltage shutdown
- Short circuit protection
- Remote on/off
- Encapsulated case provides maximum shock, vibration and humidity resistance
- Fixed switching frequency 300 kHz
- Basic Version:
  - Voltage Control
  - Thermal Warning
  - Synchronisation
- Comfort Version (additional features):
  - Voltage in Fail
  - Voltage out Fail
  - Sense

max. Output Power (W)	160	160	160	160
Type	Qone	Qone	Qone	Qone
Case	HPC	LPC	HSC	LSC
Dimensions (LxWxH) in mm	95x65x35	95x65x11	95x35x65	95x11x65
Outputs	1	1	1	1
Output Voltages (VDC)	3.3/5/12/ 15/24/28	3.3/5/12/ 15/24/28	3.3/5/12/ 15/24/28	3.3/5/12/ 15/24/28
Input Voltage Ranges (VDC)	6-18/14-36/ 9-40/19-51/32-80/ 43-101/64-160	6-18/14-36/ 9-40/19-51/32-80/ 43-101/64-160	6-18/14-36/ 9-40/19-51/32-80/ 43-101/64-160	6-18/14-36/ 9-40/19-51/32-80/ 43-101/64-160
Operating Temperature in °C	-40 up to +85	-40 up to +85	-40 up to +85	-40 up to +85

Qone-Series

Chassis Mounting / DIN Rail Mounting

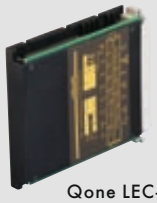

Qone HFC


Qone LFC


Qone LFC
DIN Rail mounting
vertical


Qone LFC
DIN Rail mounting
horizontal


Qone LEC-C


Qone LEC-CS

Chassis Mounting/ DIN Rail Mounting

- Special features as for pcb mounting, Comfort Version
- DIN rail kit available
- According to the Railway Standard EN 50155 and EN 50121-3-2 (LEC)

max. Output Power (W)	160	160	160	160
Type	Qone	Qone	Qone	Qone
Case	HFC	LFC	LEC-C	LEC-CS
Dimensions (LxWxH) in mm	95x89x39	95x89x15	162x19,2x111	119x19,2x111
Outputs	1	1	1	1
Output Voltages (VDC)	3.3/5/12/ 15/24/28	3.3/5/12/ 15/24/28	3.3/5/12/ 15/24	3.3/5/12/ 15/24
Input Voltage Ranges (VDC)	6-18/14-36/ 9-40/19-51/32-80/ 43-101/64-160	6-18/14-36/ 9-40/19-51/32-80/ 43-101/64-160	7-18/14-36/ 9-40/21-51/32-80/ 43-101/64-160	7-18/14-36/ 9-40/21-51/32-80/ 43-101/64-160
Operating Temperature in °C	-40 up to +82	-40 up to +82	-40 up to +85	-40 up to +85

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Qone-Series

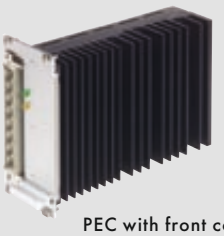
Standard euro-rack size 19“



Qone HEC-4/DB



Qone LEC



PEC with front connector



PEC

Standard euro-rack size 19“

Qone HEC-4 for Compact PCI

- Isolated
- Quad-output
- Front plate 8 HP / 3 U
- High power density
- Overtemperature and overvoltage shutdown
- Short circuit protection
- Remote on/off
- Coated assembly
- Glued parts for better vibration resistance
- Fixed switching frequency
- Yellow LED to indicate operating mode
- According to Railway Standard EN 50155 and EN 50121-3-2
- Inrush current limiting
- Reverse polarity protection
- Hold up time of 10 ms
- Supply Fail
- Derating Signal
- Sense
- Enable Signal

Qone LEC/PEC

- Isolated
- Single
- Front plate 4 HP / 3 U (LEC); 12 HP / 3U (PEC)
- CE marked
- High power density
- Overtemperature and overvoltage shutdown
- Short circuit protection
- Remote on/off
- Coated assembly
- Glued parts for better vibration resistance
- Fixed switching frequency
- Yellow LED to indicate operating mode

max. Output Power (W)	100	120	300 W
Type	Qone	Qone	Qone
Case	HEC-4DB	LEC	PEC
Dimensions (LxWxH) in mm	166.5x40.3x111	164.5x20x111	167x60.9x111
Outputs	4	1	1
Output Voltages (VDC)	+3.3/+5/+12/-12	3.3/5/12/15/24	on request
Input Voltage Ranges (VDC)	14.4-36/19-51/ 43-101/66-160	7-18/14-36/ 9-40/21-51/32-80/ 43-101/64-160	on request
Operating Temperature in °C	-40 up to +85	-40 up to +85	-40 up to +85

For complete data sheets, visit www.autronic.de

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DC-DC Converters

Special Solutions



SPC



AVP/KEP-G



Customer-specific booster

Special Solutions

We are the right people to talk about particular requirements. We will develop and produce your own special converter.

Examples:

- SPC:
  - 35 W
  - wide input range (14,4 -36 V DC)
  - up to 80°C wthout derating
  - only 8,3 mm height
- AVP/KEP-G:
  - 200 W
  - with RIA-12 filter
  - IP 65
- Customer-specific booster:
  - 300 W/50 A out of low-voltage-sources
  - Wide input range: 5-15V
  - Output Voltage up to 18V with sense-function
  - High efficiency through synchron-rectifier
  - Suitable for fuel-cell systems

Inquiry by fax +49 (0) 7147/24-252

Company: _____ Date: _____

First Name: _____ Last Name: _____

Street: _____ PO Box: _____

Zip Code: _____ City: _____

Country: _____

Telephone: _____ Fax: _____

Email: _____

Output Voltages

Output Currents

Input Voltages

Isolation

Construction/Mounting

Temperature Range

Quantity/Delivery Schedule

Remarks

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Other types on request.
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e-mail: vertrieb@autronic.de

QUALITY SYSTEM

certified by DQS according to
DIN EN ISO 9001:2000 Reg.-No. 000510 QM

08/2008

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