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POWER SUPPLY SYSTEMS

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Power supply systems – Overview



19" AC/DC switch-mode PSUs

- Compact PSUs with high efficiency level

19" AC/DC linear regulators

- Very low interference, optimised for medical applications





19" DC/DC switch-mode PSUs

- Large DC input voltage range and high performance

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Power supply systems – Overview



PSUs for MicroTCA applications

- Plug-in PSUs in double full-size format with and without management



PSUs for VMEbus applications

- AC/DC and DC/DC switch-mode PSUs in 19" or open frame design





PSUs for CompactPCI and VME64x applications

- AC/DC and DC/DC switch-mode PSUs in 19" or open frame design

Overview 9.0

19" AC/DC switch-mode PSUs

AC/DC regulators

Single, 42 W 9.2
Single, 50 W 9.3
Single, 100 W 9.4
Single, adjustable, 100 W 9.5
Single, 180 W 9.6
Dual, 100 W 9.7
Triple, 100 W 9.8
Triple, 130 W 9.9

AC/DC linear regulators

Single, 8 - 60 W .. 9.10
Dual, 10 - 58 W ... 9.11
Triple, 7 - 39 W ... 9.12

DC/DC switch-mode PSUs

Single, 100 W 9.13
Dual, 100 W 9.14
Triple, 100 W 9.15

Accessories

Z-rail, 4 HP 9.16
Connector H 15 F 9.16
Keying/coding 9.17
Wall/horizontal rail mounting 9.17

PSUs for MicroTCA

MTCA double, without management 9.18

PSUs for VMEbus

19", AC/DC, triple, 150/224 W 9.19
Open frame, AC/DC, triple, 444 ... 800 W 9.20

PSUs for CompactPCI, CompactPCI Serial, and VME64x

CPCI Serial, 19", AC/DC, 3 U, 300 W 9.21
19" AC/DC, 3/6 U, 250/500 W 9.22
AC/DC open frame, triple, 300/600 W 9.24
19" DC/DC, 3/6 U, 250/500 W 9.26

ServicePLUS ... 9.28

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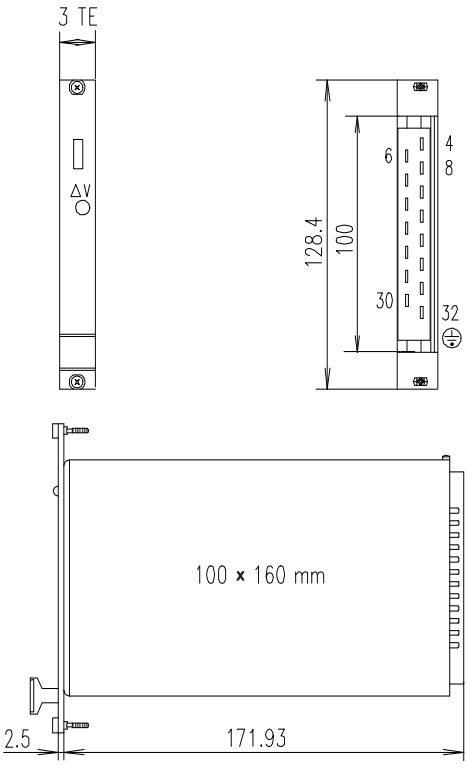
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Power supply – 19" AC/DC switch-mode PSUs

slimpower 42 W, single



11302001



11302054

- Width only 3 HP
- Wide input voltage range
  85 ... 254 VAC and 120 ... 360 VDC
- Single output voltage with low interferences
  (low ripple < 10 mV_{PP})
- Integrated decoupling diode for redundancy operation
  (can be activated)
- Passive Current Share Bus
- Signalling: Output voltage OK

CE

Delivery comprises

Qty	Description
1	19"-compatible power supply unit height 3 U width 3 HP depth 171.93 mm (160 mm board depth) connector H 15 M

Order Information

Voltage V	Current A	Power W	Description	Part no.
5	6	30	SLE 105	**13100-136**
12	3.5	42	SLE 112	13100-137
15	2.8	42	SLE 115	**13100-138**
24	1.7	41	SLE 124	13100-139
Front panel 3 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-959**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**

Note

- **Please order front panel separately**
- Output data at T_A = 0 ... 50 °C
- Customised front panels available via
  www.frontpanelexpress.eu
- Further accessories see page 9.16

TE = HP

Connector pin-out

Pin	Connection
4	Output + V_1
6	Output + V_1
8	Sense line + V_1
10	Sense line 0 V_1
12	Output 0 V_1
14	Output 0 V_1
16	–
18	–
20	–
22	–
24	Output OK
26	–
28	L
30	N
32	PE ⏚

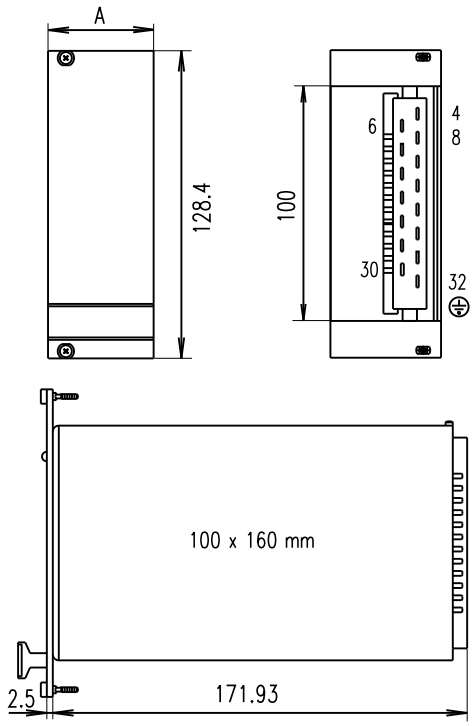
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Power supply – 19" AC/DC switch-mode PSUs

maxpower 50 W, single



11396002



DIJM0084

- Wide input voltage range
  90 ... 264 VAC and 130 ... 340 VDC
- Single output voltage
- Integrated decoupling diode for redundancy operation
- Active Current Share Bus (CSB)
- Signalling: Output voltage OK
- Efficiency up to 80 %

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 6 HP depth 171.93 mm (160 mm board depth) connector H 15 M coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
5	9	45	SEK 105	**13100-043**
12	4.2	51	SEK 112	**13100-044**
15	3.4	51	SEK 115	**13100-041**
24	2.1	51	SEK 124	13100-045
48	1.1	53	SEK 148	**13100-046**
Front panel 6 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-943**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**

Note

- **Please order front panel separately**
- Output data at T_A = 0 ... 50 °C
- Customised front panels available via **www.frontpanelexpress.eu**
- Further accessories see page 9.16

Connector pin-out

Pin	Connection
4	Output + V_1
6	Output + V_1
8	Sense line + V_1
10	Sense line 0 V_1
12	Output 0 V_1
14	Output 0 V_1
16	-
18	-
20	-
22	CSB
24	Output OK
26	-
28	L
30	N
32	PE ⏚

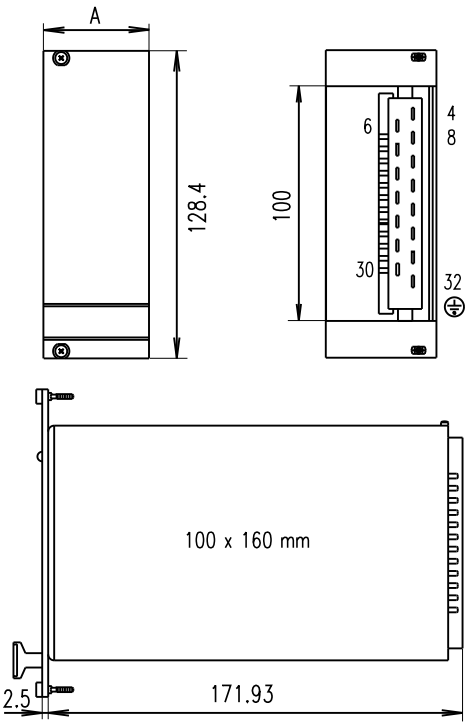
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Power supply – 19" AC/DC switch-mode PSUs

maxpower 100 W, single



11399005



DIJM0084

- Wide input voltage range 90 ... 254 V_{AC} and 100 ... 360 V_{DC} with active power factor correction (PFC)
- High power density
- Single output voltage
- Integrated decoupling diode for redundancy operation
- Active current share bus (CSB)
- Signalling: Output voltage OK

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 6 HP depth 171.93 mm (160 mm board depth) connector H 15 M coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
5	16	80	MAX 105	**13100-102**
12	8.3	100	MAX 112	13100-103
15	6.6	99	MAX 115	13100-104
24	4.2	101	MAX 124	**13100-105**
Front panel 6 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-943**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**

Note

- **Please order front panel separately**
- Output data for mains voltage > 190 V_{AC}, T_A = 0 ... 50 °C
- Customised front panels available via **www.frontpanelexpress.eu**
- Further accessories see page 9.16

Connector pin-out

Pin	Connection
4	Output + V_1
6	Output + V_1
8	Sense line + V_1
10	Sense line 0 V_1
12	Output 0 V_1
14	Output 0 V_1
16	–
18	–
20	–
22	CSB
24	Output OK
26	–
28	L
30	N
32	PE ⏚

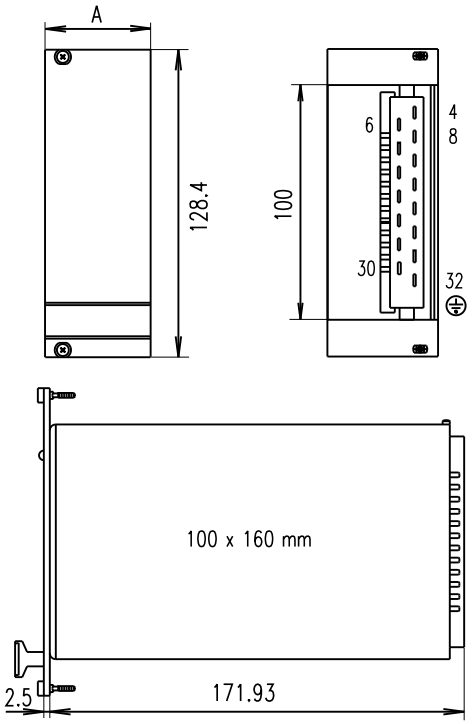
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Power supply – 19" AC/DC switch-mode PSUs

maxpower 100 W, adjustable, single



11303001



DIJM0084

- Wide adjustment range of output voltage
- Wide input voltage range 90 ... 264 V_{AC} and 100 ... 360 V_{DC} with active Power Factor Correction (PFC)
- Single output voltage
- Integrated decoupling diode for redundancy operation
- Active Current Share Bus (CSB)
- Signalling: Output voltage OK

CE

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 6 HP depth 171.93 mm (160 mm board depth), output voltage factory preset to 12 V / 24 V Connector H 15 M Coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
4.5–17	5.9	100	MAX LR	**13100-133**
16–30	3.4	102	MAX UR	13100-134
Front panel 6 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-954**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**

Note

- **Please order front panel separately**
- Output data for mains voltage > 190 V_{AC}, T_A = 0 ... 50 °C
- Customised front panel available via **www.frontpanelexpress.eu**
- Further accessories see page 9.16

Connector pin-out

Pin	Connection
4	Output + V_1
6	Output + V_1
8	Sense line + V_1
10	Sense line 0 V_1
12	Output 0 V_1
14	Output 0 V_1
16	–
18	–
20	–
22	CSB
24	Output OK
26	–
28	L
30	N
32	PE ⏚

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Power supply – 19" AC/DC switch-mode PSUs

maxpower 180 W, single



11308005

- Wide input voltage range 90 ... 254 V_{AC} and 100 ... 360 V_{DC} with active Power Factor Correction (PFC)
- Single output voltage
- Integrated active decoupling for redundancy operation
- Active Current Share Bus (CSB)
- Signalling: Output voltage OK
- Efficiency up to 87 %

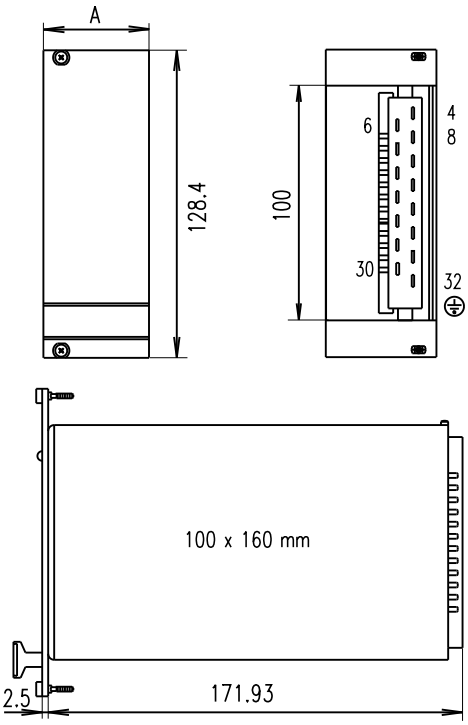
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Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 8 HP depth 171.93 mm (160 mm board depth) connector H 15 M coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
5	30	150	MAX 180-105	13100-150
12	13	156	MAX 180-112	13100-151
15	11	165	MAX 180-115	13100-152
24	7	168	MAX 180-124	**13100-153**
Front panel 8 HP, Al extrusion, front anodised, rear iridescent green chromated, shielded with fixed textile gasket, incl. assembly kit, 1 piece				**31006-677**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**



DIJM0084

Note

- **Please order front panel separately**
- Output data for mains voltage > 190 V_{AC}, T_A = 0 ... 50 °C
- Customised front panels available via **www.frontpanelexpress.eu**
- Further accessories see page 9.16

Connector pin-out

Pin	Connection
4	Output + V_1
6	Output + V_1
8	Sense + V_1
10	Sense 0V V_1
12	Output 0V V_1
14	Output 0V V_1
16	Output + V_1
18	Output 0V V_1
20	Test
22	CSB
24	DC output OK
26	–
28	L
30	N
32	PE ⏚

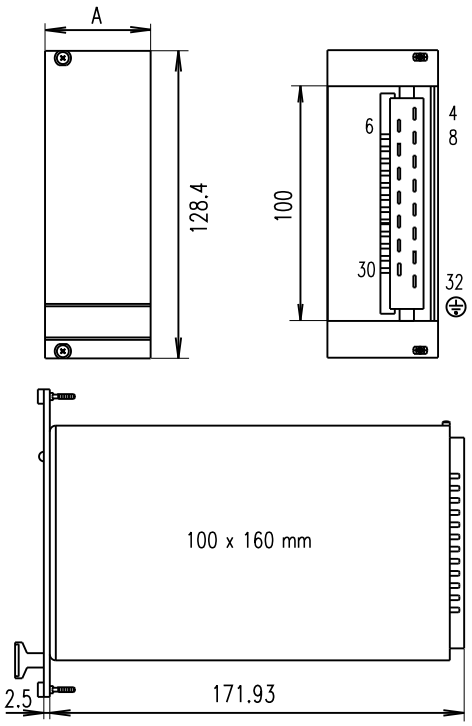
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Power supply – 19" AC/DC switch-mode PSUs

maxpower 100 W, dual



11300010



DIJM0084

- Wide input voltage range 90 ... 254 V_{AC} and 100 ... 360 V_{DC} with active power-factor correction (PFC)
- High power density
- 2 output voltages
- Efficiency up to 80%

Delivery comprises

Qty	Description
1	19"-compatible power-supply unit height: 3 U width A: 8 HP depth 171.93 mm (160 mm board depth) connector H 15 M coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
V1: 5 V_2: 12	I_1: 9 I_2: 4	93	MAX 2512	13100-112
V1: 5 V_2: 24	I_1: 9 I_2: 2	93	MAX 2524	**13100-114**
V1: 12 V_2: -12	I_1: 4.2 I_2: 4.2	101	MAX 212	13100-115
V1: 15 V_2: -15	I_1: 3.4 I_2: 3.4	102	MAX 215	**13100-116**
Front panel 8 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-945**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**

Note

- **Please order front panel separately**
- Output data for mains voltage > 190 V_{AC}, T_A = 0 ... 50 °C
- Customised front panels available via **www.frontpanelexpress.eu**
- Further accessories see page 9.16

Connector pin-out

Pin	Connection
4	–
6	–
8	–
10	–
12	–
14	–
16	Output + V_1
18	Output 0 V_1
20	Output + V_2
22	Output 0 V_2
24	–
26	–
28	L
30	N
32	PE ⏚

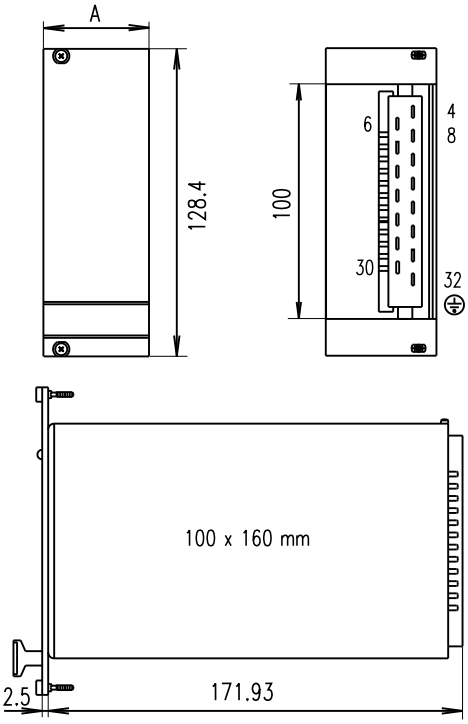
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Power supply – 19" AC/DC switch-mode PSUs

maxpower 100 W, triple



11300011



DIJM0084

- Wide input voltage range 90 ... 254 V_{AC} and 100 ... 360 V_{DC} with active power-factor correction (PFC)
- High power density
- 3 output voltages
- Signalling: Output voltage OK

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 8 HP depth 171.93 mm (160 mm board depth) connector H 15 M coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
V1: 5 V_2: 12 V_3: -12	I_1: 8 I_2: 2.5 I_3: 2.5	100	MAX 312	13100-122
V1: 5 V_2: 15 V_3: -15	I_1: 8 I_2: 2 I_3: 2	100	MAX 315	13100-123
Front panel 8 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-945**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**

Note

- **Please order front panel separately**
- Output data for mains voltage > 190 V_{AC}, T_A = 0 ... 50 °C
- Customised front panels available via **www.frontpanelexpress.eu**
- Further accessories see page 9.16

Connector pin-out

Pin	Connection
4	Output + V_1
6	Output + V_1
8	Sense line + V_1
10	Sense line 0V V_1
12	Output 0V V1,2
14	Output 0V V1,2
16	Output + V_2
18	Output 0V V1,2
20	Output 0V V_3
22	Output – V_3
24	Output OK
26	–
28	L
30	N
32	PE ⏚

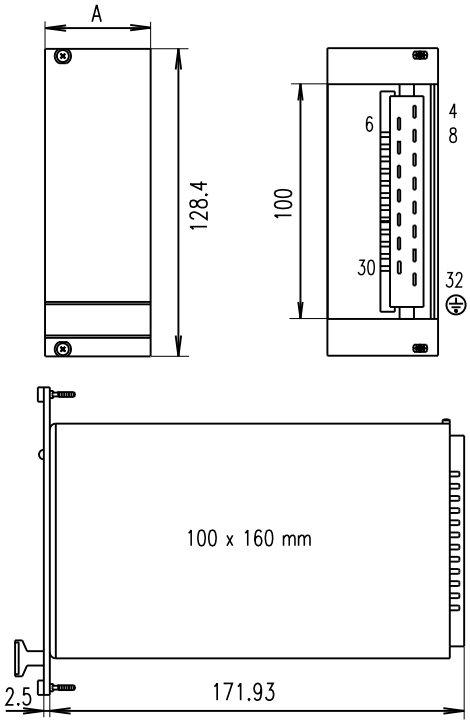
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Power supply – 19" AC/DC switch-mode PSUs

maxpower 130 W, triple



11399009



DIJM0084

- Wide input voltage range 90 ... 254 V_{AC} and 100 ... 360 V_{DC} with active Power Factor Correction (PFC)
- 3 output voltages
- Signalling: Output voltage OK

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 12 HP depth 171.93 mm (160 mm board depth) connector H 15 M coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
V1: 5 V_2: 12 V_3: -12	I_1: 16 I_2: 2.8 I_3: 1.4	132	SEG 312	13100-078
V1: 5 V_2: 15 V_3: -15	I_1: 16 I_2: 2.2 I_3: 1.1	132	SEG 315	13100-079
Front panel 12 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-946**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**

Note

- **Please order front panel separately**
- Output data for mains voltage > 190 V_{AC}, T_A = 0 ... 50 °C
- Customised front panel available via **www.frontpanelexpress.eu**
- Further accessories see page 9.16

Connector pin-out

Pin	Connection
4	Output + V_1
6	Output + V_1
8	Sense + V_1
10	Sense 0V V_1
12	Output 0V V1,2,3
14	Output 0V V1,2,3
16	Output + V_2
18	Output 0V V1,2,3
20	Output 0V V1,2,3
22	Output – V_3
24	Output OK
26	–
28	L
30	N
32	PE ⏚

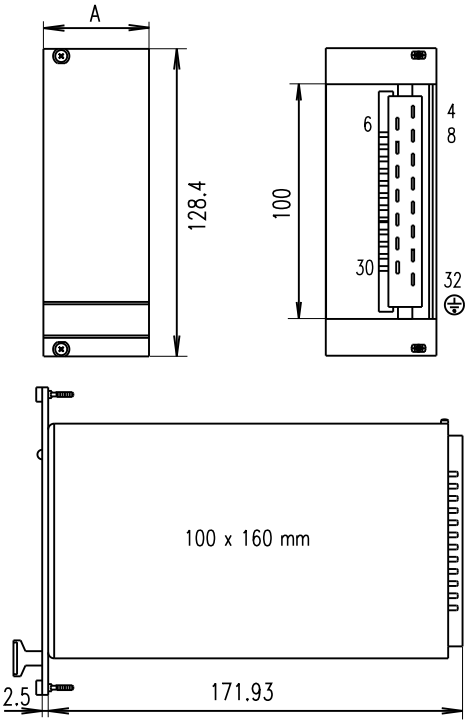
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Power supply – 19" AC/DC linear regulators

Linear regulators, single



11397001



DIJM0084

- Mains/line voltage 230 V_{AC} (can be switched to 115 V_{AC} with mains/line voltage conversion kit)
- High control accuracy, low residual ripple and low interference, suitable for medical applications (8 mm safety clearances)
- PSM, PSG
  - Output voltage can be remote controlled externally (1 ... 10 V)
  - Switching of control curve for sensitive loads (U/I - Fold Back)
  - Current measurement via shunt

CE **EN 60950 approved**

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 6, 10, 14 HP depth 171.93 mm (160 mm deep boards) connector H 15 M (fitted) keying/coding peg (fitted)

Order Information

Voltage V	Current A	Power W	Width HP	Description	Part no.
5	1.5	8	6	PSK 105	**13105-001**
5	4	20	10	PSM 105	13105-006
5	6	30	14	PSG 105	**13105-011**
12	1.1	13	6	PSK 112	13105-002
12	2.8	31	10	PSM 112	**13105-007**
12	4.2	50	14	PSG 112	**13105-012**
15	1	15	6	PSK 115	**13105-003**
15	2.2	33	10	PSM 115	**13105-008**
15	3.5	53	14	PSG 115	**13105-013**
24	0.6	16	6	PSK 124	**13105-004**
24	1.5	36	10	PSM 124	**13105-009**
24	2.5	60	14	PSG 124	**13105-014**
Front panel for PSK 6 HP, 1 piece					**21005-475**
Front panel for PSM 10 HP, 1 piece					**21005-473**
Front panel for PSG 14 HP, 1 piece					**21005-474**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces					**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece					**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)					**60800-123**
Mains voltage conversion kit 230 V to 115 V, 1 piece					**43105-999**

Connector pin-out

Pin	PSK single	PSM, PSG single
4	Sense line + V_1	Sense line + V_1
6	Output + V	Output + V
8	Output + 0 V_1	Output +0 V_1
10	Sense line 0 V_1	Sense line 0 V_1
12	–	Optional: redundancy diode
14	–	External on/off
16	–	GND
18		V remote input + Vc
20	–	V-shunt + Vs
22	–	V-shunt – Vs
24	–	–
26	–	–
28	L	L
30	N	N
32	PE ⏚	PE ⏚

Note

- **Please order front panel separately** (Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit)
- PSK without case
- Output data at T_A = 0 ... 50 °C
- Further accessories see page 9.16

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Power supply – 19" AC/DC linear regulators

Linear regulators, dual



11300001

- Mains/line voltage 230 V_{AC} (can be switched to 115 V_{AC} with mains/line voltage conversion kit)
- 2 output voltages, galvanically separated
- High control accuracy, low residual ripple and very low interference
- Suited for medical applications (8 mm safety clearances)

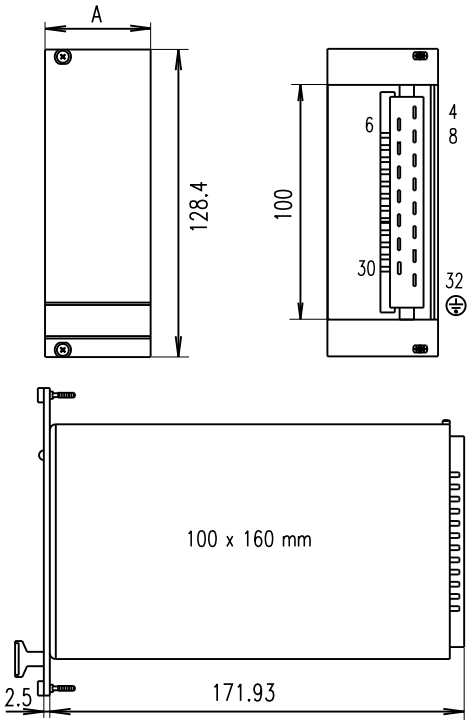
CE EN 60950 approved

Delivery comprises

Qty	Description
1	19" compatible power supply Height 3 U Width A: 6, 10, 14 HP Depth 171.93 mm (160 mm board depth) Connector H 15M Coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Width HP	Description	Part no.
V1: 5 V_2: 5	I_1: 1.4 I_2: 1.4	14	10	PSM 205	**13105-021**
V1: 12 V_2: 12	I_1: 0.4 I_2: 0.4	10	6	PSK 212	13105-017
V1: 12 V_2: 12	I_1: 1 I_2: 1	24	10	PSM 212	13105-022
V1: 12 V_2: 12	I_1: 1.5 I_2: 1.5	36	14	PSG 212	**13105-027**
V1: 15 V_2: 15	I_1: 0.4 I_2: 0.4	12	6	PSK 215	**13105-018**
V1: 15 V_2: 15	I_1: 1 I_2: 1	30	10	PSM 215	13105-023
V1: 15 V_2: 15	I_1: 1.5 I_2: 1.5	45	14	PSG 215	**13105-028**
V1: 24 V_2: 24	I_1: 1.2 I_2: 1.2	58	14	PSG 224	**13105-029**
Front panel for PSK 6 HP, 1 piece					**21005-476**
Front panel for PSM 10 HP, 1 piece					**21005-477**
Front panel for PSG 14 HP, 1 piece					**21005-478**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces					**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece					**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)					**60800-123**
Mains voltage conversion kit 230 V to 115 V, 1 piece					**43105-999**



DIJM0084

Connector pin-out

Pin	Connection
4	Sense line + V_1
6	Output + V_1
8	Output 0 V_1
10	Sense line 0 V_1
12	Sense line + V_2
14	Output + V_2
16	Output 0 V_2
18	Sense line 0 V_2
20	–
22	–
24	–
26	–
28	L
30	N
32	PE ⏚

Note

- **Please order front panel separately** (Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit)
- PSK without case
- Output data at T_A = 0 ... 50 °C
- Further accessories see page 9.16

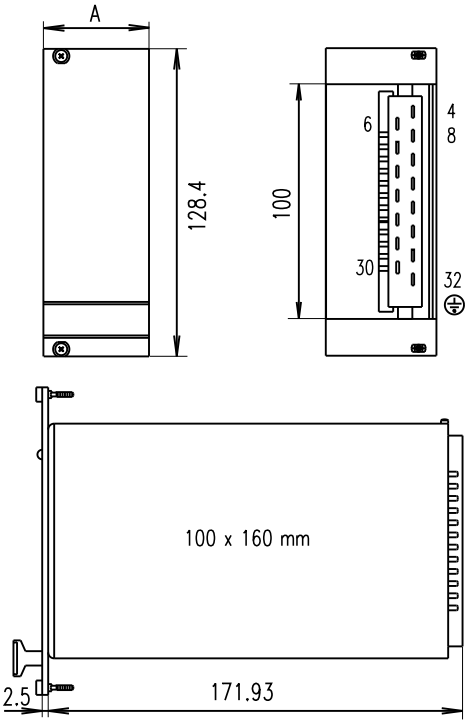
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Power supply – 19" AC/DC linear regulators

Linear regulators, triple



11300002



DIJM0084

- Mains/line voltage 230 V_{AC} (can be switched to 115 V_{AC} with mains/line voltage conversion kit)
- 3 output voltages, galvanically separated
- High control accuracy, low residual ripple and very low interference
- Suited for medical applications (8 mm safety clearances)

CE EN 60950 approved

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 6, 10, 14 HP depth 171.93 mm (160 mm board depth) connector H 15 M coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Width HP	Description	Part no.
V1: 5 V_2: 12 V_3: 12	I_1: 0.5 I_2: 0.2 I_3: 0.2	8	6	PSK 312	13105-051
V1: 5 V_2: 12 V_3: 12	I_1: 1.5 I_2: 0.5 I_3: 0.5	20	10	PSM 312	13105-052
V1: 5 V_2: 12 V_3: 12	I_1: 3 I_2: 1 I_3: 1	39	14	PSG 312	**13105-053**
Front panel for PSK 6 HP, 1 piece					**21005-470**
Front panel for PSM 10 HP, 1 piece					**21005-451**
Front panel for PSG 14 HP, 1 piece					**21005-439**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces					**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece					**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)					**60800-123**
Mains voltage conversion kit 230 V to 115 V, 1 piece					**43105-999**

Note

- **Please order front panel separately** (Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit)
- PSK without case
- Output data at T_A = 0 ... 50 °C
- Further accessories see page 9.16

Connector pin-out

Pin	Connection
4	Sense line + V_1(PSM, PSG)
6	Output + V_1
8	Output 0 V_1
10	Sense line 0 V_1(PSM, PSG)
12	Output + V_2
14	Output 0 V_2
16	Output + V_3
18	Output 0 V_3
20	Data save
22	Power failure
24	0 V for pin 20, 22
26	–
28	L
30	N
32	PE ⏚

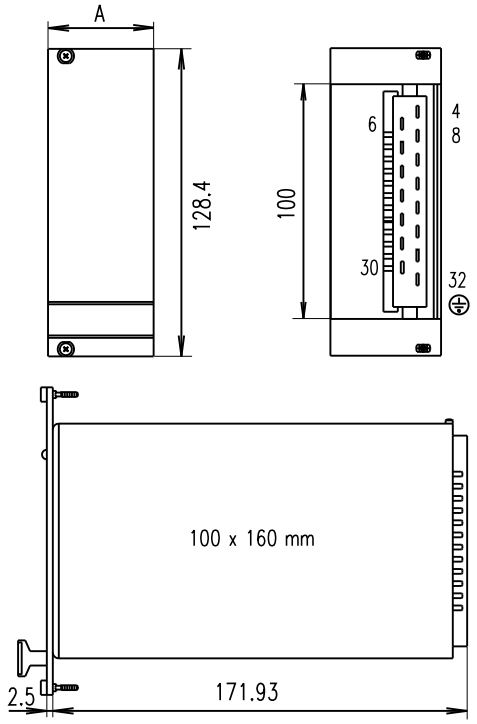
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Power supply – 19" DC/DC converters

coolpower 100 W, single



11301001



DIJM0084

- Wide input voltage range from 20 to 72 V_{DC}
- High power density
- Single output voltage, redundancy diode fitted
- External ON/OFF
- Galvanic separation between primary and secondary circuits
- Passive current-share operation

CE

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 6 HP depth 171.93 mm (160 mm board depth) connector H 15 M coding strip (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
5 1)	20	100	CPDC 105	**13103-002**
12 1)	8.5	102	CPDC 112	13103-003
15 1)	6.7	100	CPDC 115	13103-004
24 2)	4.5	108	CPDC 212	13103-007
1) Front panel 6 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-955**
2) Front panel 6 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-956**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**

Note

- **Please order front panel separately**
- Power supply with CPDC 212, dual output voltages 24, 30 V (2 x 12 V, 2 x 15 V)
- Front panel for 13103-007: 21006-956
- For higher input voltages (100 ... 360 V_{DC}) see maxpower single, page 9.4
- Further accessories see page 9.16

Connector pin-out

Pin	5, 12, 15 V Connection
4	Output + V_1
6	Output + V_1
8	Sense line + V_0
10	Sense line 0V V_1
12	Output 0V V_1
14	Output 0V V_1
16	
18	
20	
22	Internally engaged
24	Output OK
26	Ext. ON/OFF*
28	$+V_E$
30	0V V_E
32	PE ⏚

Pin	24 V Connection
4 6 8	Output + 24 ... 30 V via diode
10	Output 0 V
12	Output 0 V
14	Output 0 V
16	Internally engaged
18	Internally engaged
20	Internally engaged
22	Internally engaged
24	
26	
28	$+V_E$
30	0V V_E
32	PE ⏚

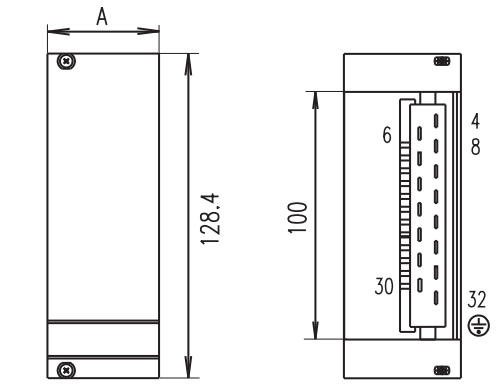
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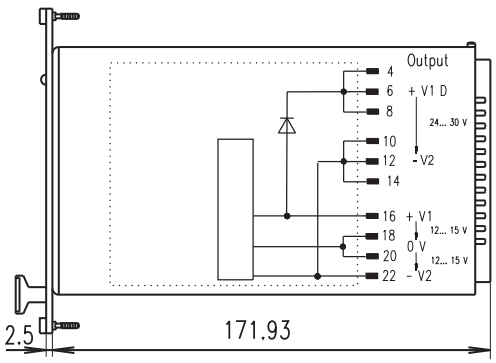
Power supply – 19" DC/DC converters

coolpower 100 W, dual



11302003





11302053

- Wide input voltage range from 20 to 72 V_{DC}
- High power density
- 2 output voltages (or single output voltage 24 – 30 V via internal redundancy diode V_1D)
- Galvanic separation between primary and secondary circuit

CE

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 6 HP depth 171.93 mm (160 mm board depth) connector H 15 M coding strip (fitted)

Order Information

Voltage min. ... max. V	Current A	Power W	Description	Part no.
V_1: 12 ... 15 V_2: -12 ...-15	I_1: 4.5 I_2: 4.5	108	CPDC 212	13103-007
Front panel 6 HP, Al, front anodised, rear iridescent green chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-956**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**

Note

- **Please order front panel separately**
- 1 output voltage via output pins V_1D 24 V ... 30 V, I_1D 4.5 A, 108 W
- Output data at T_A = 50 °C
- Adjustment range 12 V ... 15 V
- For higher input voltages (100 ... 360 V_{DC}), see maxpower single, page 9.7
- Further accessories see page 9.16

Connector pin-out

Pin	Connection
4	Output + V_1D
6	Output + V_1D
8	Output + V_1D
10	Output – V_2
12	Output – V_2
14	Output – V_2
16	Output + V_1
18	Output V_1/V_2 0 V
20	Output V_1/V_2 0 V
22	Output – V_2
24	–
26	–
28	Input +Vi
30	Input 0 V
32	PE ⏚

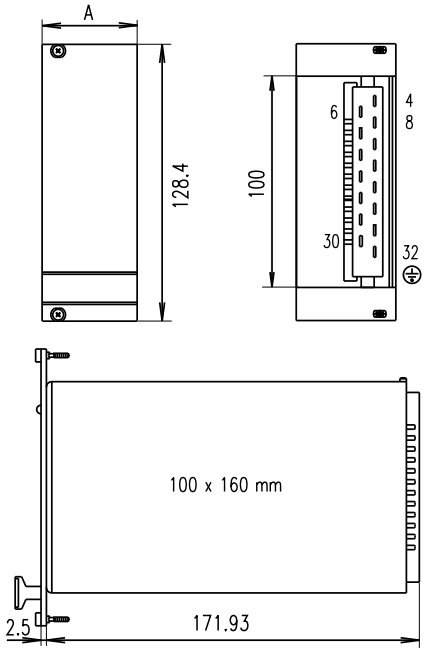
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Power supply – 19" DC/DC converters

coolpower 100 W, triple



11302004



DIJM0084

- Wide input voltage range from 20 to 72 V_{DC}
- High power density
- 3 output voltages, galvanically separated
- Galvanic separation between primary and secondary circuit
- External ON/OFF

CE

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 6 HP depth 171.93 mm (160 mm deep boards) connector H15M (fitted) keying/coding peg (fitted)

Order Information

Voltage min. ... max. V	Current A	Power W	Description	Part no.
V_1: 5 V_2: 12 ...15 V_3: 12 ...15	I_1: 10 I_2: 2 I_3: 2	98	CPDC 312	**13103-016**
Front panel 6 HP, Al, front anodised, rear colourless chromated, with vertical grooves for EMC gaskets, incl. assembly kit, 1 piece				**21006-957**
EMC gaskets (stainless steel) 3 U, 97 mm, stainless steel, two pieces necessary per front panel, PU 10 pieces				**21101-705**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece				**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)				**60800-123**

Note

- **Please order front panel separately**
- Output data at T_A = 50 °C
- Adjustment range V_2, V_3 12 ... 15 V
- Input voltage 100 ... 360 V_{DC}, see maxpower triple, page 9.8
- Further accessories see page 9.16

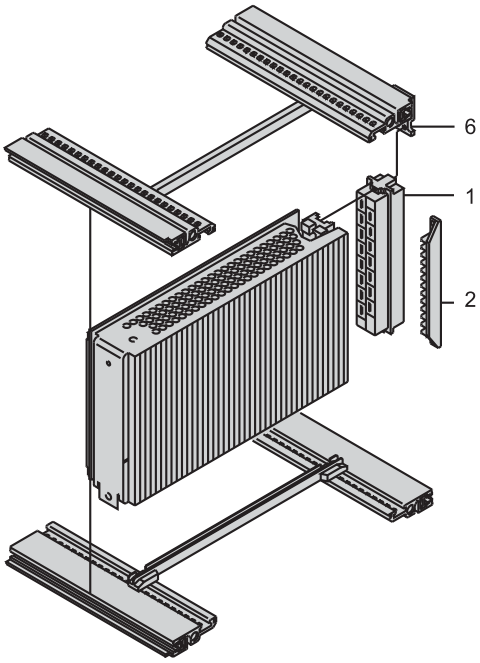
Connector pin-out

Pin	Connection
4	Output + V
6	Output + V_1
8	Sense line + V_2
10	Sense line V_1 0 V
12	Output V_1 0 V
14	Output V_1 0 V
16	Output + V_2
18	Output V_2 0 V
20	Output + V_3
22	Output V_3 0 V
24	–
26	External ON/OFF
28	Input +Vi
30	Input 0 V
32	PE ⏚

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Power supply – Accessories

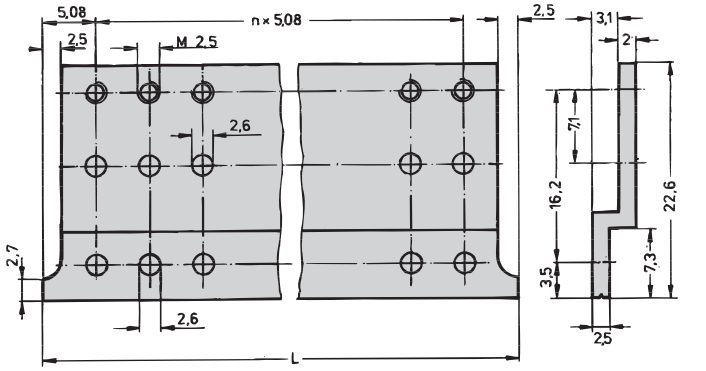
Accessories



PSA45379

- For slimpower, maxpower, coolpower and linear regulators
- Z-rail (item 6)
- Mating connector female H 15 F (item 1)
- Coding (item 2)
- Wall/horizontal rail mounting

Z-rail, 4 HP



A3-420

- For bolting a H15 F connector to the rear horizontal rail/case (item 6)
- Provides the standard plug-in depth of the PSUs

Order Information

Description	Qty/PU	Part no.
Z-rail, 4 HP (20.32 mm)	1	**30822-166**

Note

- Two Z-rails are required per connector

Connector H 15 F



05592018

- Connector EN 60603 (DIN 41612) H15 F for 6.3 mm FASTON
- In 19" power supply units the H 15 male connector is fitted, PIN 32 with capacitive earthing contact
- Compatible with connector H15 M of e.g. 19" plug-in equipment

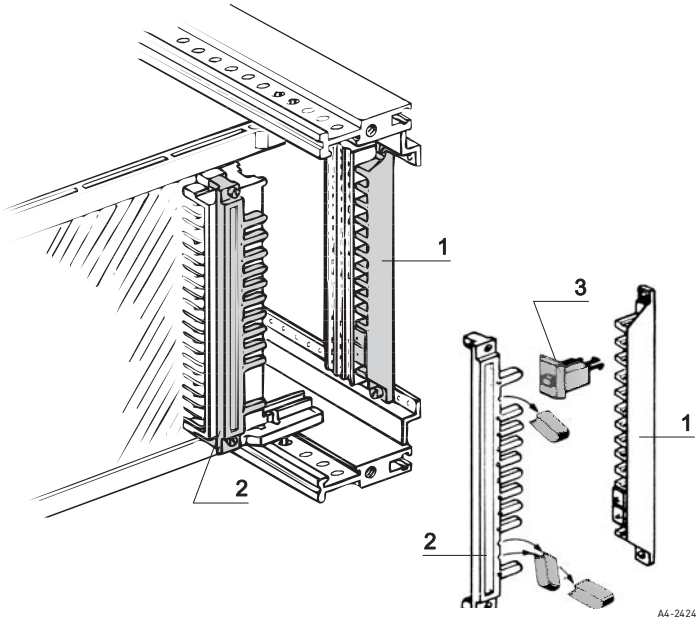
Order Information

Item	Description	Qty/PU	Part no.
1	Type H	1	**69001-733**

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Power supply – Accessories

Keying/coding



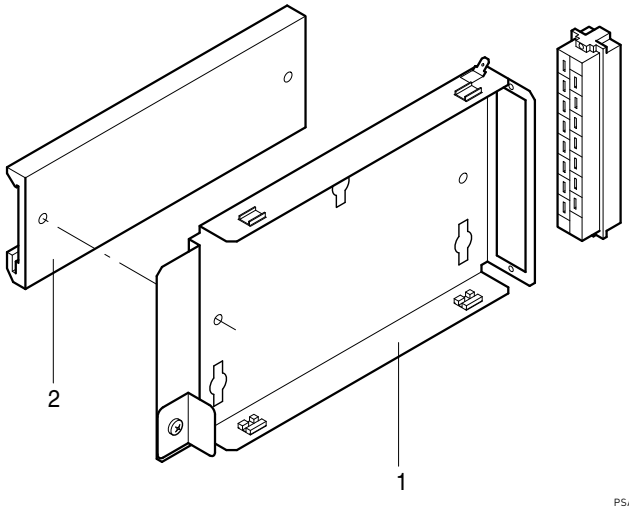
- Mechanical coding prevents a PSU being fitted on the wrong slot, space requirement 4 HP
- Coding:
  - Female strip (item 2), fitted on PSU (except slimpower)
  - Coding strip (item 1) mounts on the Z/horizontal rail
  - Placement of coding pins (item 3) in the coding strip (item 1)
  - Removal of studs at the appropriate place in the female strip
- With 2 coding pins there are 66 coding possibilities

Order Information

Description	Part no.
Keying/coding strip, Crastin (UL 94 V-0) 1 piece, keying/coding pins, Crastin (UL 94 V-0), 2 pieces	**60800-123**

Wall/horizontal rail mounting





- Suitable for 19"-compatible 3 U PSUs
- 2 mounting options
  - Wall mounting bracket can be fitted in any position with screws and PSU is inserted
  - Horizontal rail adaptor is bolted to wall mounting bracket, then the 19" PSU can be clipped to a horizontal rail

Order Information

Item	Description	Qty/PU	Part no.
1	Wall mounting bracket, St	1	**11000-001**
2	Horizontal rail adaptor bracket, Al	1	**11000-002**
Connector H 15 F FASTON connection, 1 piece			**69001-733**

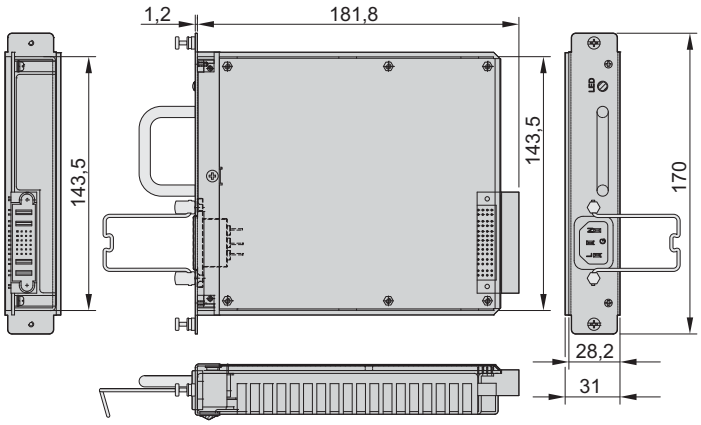
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Power supply – for MicroTCA

AC/DC, double full-size, without management



11309004



11312050

- Wide input voltage range 90 ... 264 V_{AC}
- Active power factor correction
- Construction compatible with AdvancedMC double full-size
- Single-wire current share cable for redundancy operation
- 2 output voltages, 12 V and 3.3 V
- Corresponds to EMC class B as per EN 55022
- Without MicroTCA power management controller
- Mains input at front

NEW

Delivery comprises

Qty	Description
1	PSU for MicroTCA height double (148.3 mm) width full-size (6 HP) depth 186.65 mm connector Molex SSI front panel with handle and EMC gasket (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
V1: 12 V_2: 3.3	I_1: 25 I_2: 3	300	MCA 300 AC	**11098-392**
V1: 12 V_2: 3.3	I_1: 45.8 I_2: 3	550	MCA 550 AC	**11098-416**

Note

- Output data for T_A = -25 ... 55 °C with forced cooling of 20 cfm
- Connector FCI 51720-10202402AA or Molex 87631-2019

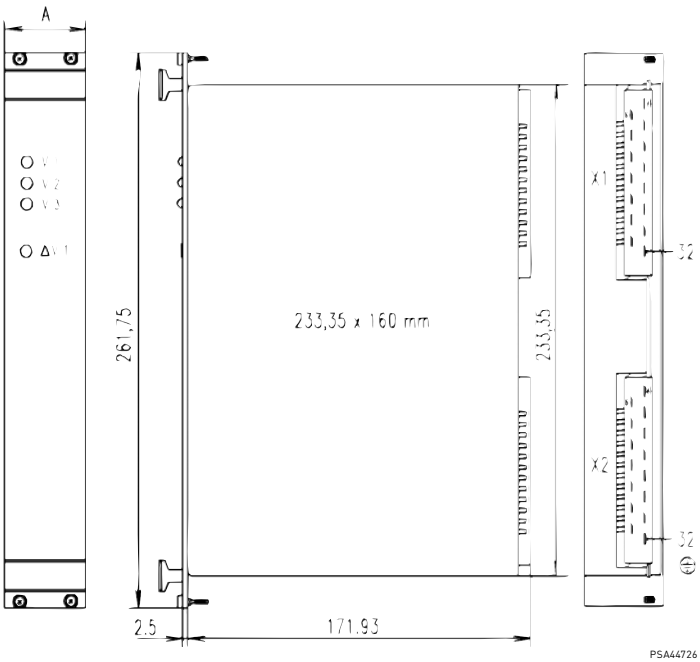
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Power supply – for VMEbus

AC/DC, 19", 6 U, triple



11301002



PSA44726

- Wide input voltage range 90 ... 264 V_{AC} and 130 ... 350 V_{DC} with active power factor correction (PFC)
- 3 output voltages
- VMEbus signalling

Delivery comprises

Qty	Description
1	19" compatible power supply height 6 U width A: 8, 12 HP depth 171.93 mm (160 mm board depth) front panel with handles (fitted) connector H 15 M (2 pieces) coding strip (2 pieces, fitted)

Order Information

Voltage V	Current A	Power W	Width HP	Description	Part no.
V1: 5 V_2: 12 V_3: -12	I_1: 20 I_2: 4 I_3: 3	150 (60)	8	MPS 015	13100-205
V1: 5 V_2: 12 V_3: -12	I_1: 28 I_2: 7 I_3: 3	224 (84)	12	MPS 022	13100-203
V1: 5 V_2: 15 V_3: -15	I_1: 28 I_2: 5.6 I_3: 2.4	224 (84)	12	MPS 022/15	13100-204
EMC gaskets (stainless steel) 6 U, 232 mm, stainless steel, 2 pieces necessary per front panel, PU 10 pieces					**21101-707**
Connector H 15 F Mating connector (female) for wiring inputs/outputs (6.3 mm FASTON), 1 piece					**69001-733**
Coding PU (1 keying/coding strip, 2 pieces keying/coding pins)					**60800-123**

Note

- Output data at T_A = 0 ... 40 °C
- Values in brackets: Output power V_2 + V_3
- Further accessories see page 9.16

Connector pin-out

Pin	Connection x1 (at top)	Connection x2 (at bottom)
4	Output + V_1	ACFAIL
6	Output + V_1	SYSRESET
8	Output + V_1	–
10	Output + V_1	Current Share Bus
12	Output + V_1	Shutdown 4 ... 28 V
14	Sense line + V_1	GND Shutdown
16	Output - V_3	–
18	Output 0 $V_{1,2,3}$	–
20	Output 0 $V_{1,2,3}$	–
22	Output 0 $V_{1,2,3}$	–
24	Output 0 $V_{1,2,3}$	–
26	Output 0 $V_{1,2,3}$	–
28	Output + V_2	L
30	Output + V_2	N
32	Sense line 0 V_1	PE ⏚

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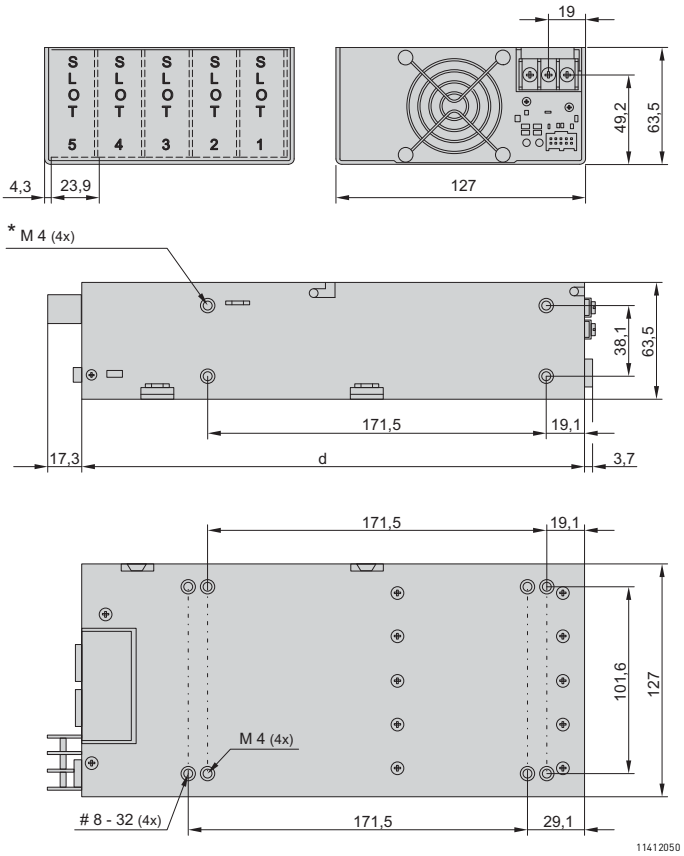
Power supply – for VMEbus

AC/DC, open frame, triple



11405002

Photo shows MP6 PSUs



11412050

* Assembly holes identical on both sides

- For VME applications
- Wide input voltage range 85 ... 264 VAC
- 3 output voltages
- High performance
- Output power 444 ... 800 W

Delivery comprises

Qty	Description
1	Open frame PSU

Order Information

Voltage V	Current A	Power W	Description	d mm	Part no.
V1: 5 V_2: 12 1) V_3: 12	I_1: 60 I_2: 10 I_3: 4	444 2)	MP4 2E-4LL-00	254.0	11098-267
V1: 5 V_2: 12 V_3: 12	I_1: 60 I_2: 17 I_3: 17	708 3)	MP6 2E-1L-1L-00	279.4	11098-266
V1: 5 V_2: 12 1) V_3: 12	I_1: 120 I_2: 10 I_3: 4	744 3)	MP6 3E-4LL-00	279.4	11098-140
V1: 5 V_2: 12 1) V_3: 12	I_1: 120 I_2: 17 I_3: 17	800 3)	MP6 3E-1L-1L-00	279.4	11098-231

Accessories

Set of connectors with all input/output connectors, PU 1 kit	**21009-038**

1) 10 % base load necessary, sum of 12 V outputs max. 144 W
2) Output max. 400 W at 85 V_{AC} ... 180 V_{AC}
3) Output max. 600 W at 85 V_{AC} ... 180 V_{AC}

Note

- Output data at -20 °C ... +50 °C
- Input: AC 85 ... 264 V (47 ... 440 Hz), DC 120 ... 350 V
- Output voltages adjustable, ±10 %
- Signalling: Input ok, DC output ok
- Other output voltages available on request

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Power supply – for CompactPCI Serial

19" switched-mode power supply for CompactPCI Serial



11315001

- 19" pluggable PSU for CompactPCI Serial applications
- Very wide input voltage range for both AC and DC
- Active power factor correction and active current-share function
- N+1 redundancy, hot swap
- Output signaling: PS present, power failure, PO ON and enable
- I2C interface
- Temperature monitoring
- Sense line
- UL, cUL and DEMKO certificates, CE-compliant

CompactPCI®

Delivery includes

Qty	Description
1	19"-compatible PSU Height 3 U Width 8 HP 160 mm board depth PwrBlade connector (fitted) Front panel with handle and EMC contact strip (fitted)

Order Information

Voltage V	Current A	Power W	Input voltage	Part no.
V1: 12 V_2: 5	I_1: 25 I_2: 2.5	300	AC: 90 ... 264 V	**11098-538**
Accessories				
CompactPCI Serial power backplane, 3 U, 8 HP, 1 slot 1 piece				23098-397

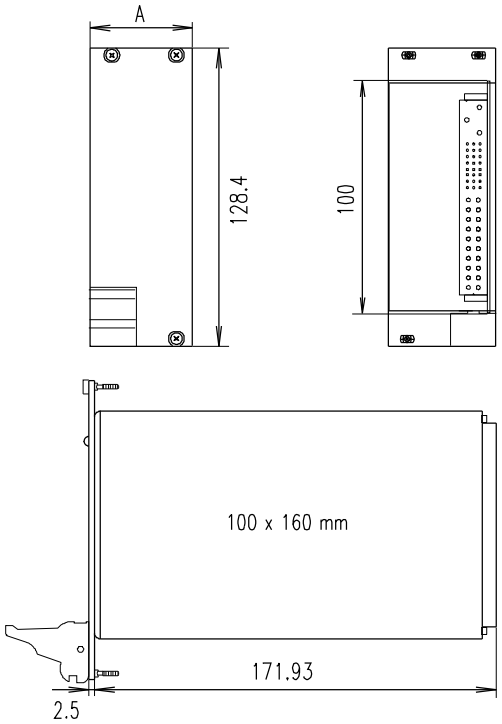
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Power supply – for CompactPCI and VME64x

AC/DC, 19", 3 U, quad



11302005



11302052

- Wide input voltage range 90 ... 264 V_{AC} with power factor correction (PFC)
- 4 output voltages
- Connector P 47
- Redundant operation with Current Share Bus (CSB), hot-swap
- CompactPCI signalling

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A 8 HP depth 171.93 mm (160 mm board depth) connector P 47 front panel with handles and EMC gasket fitted

Order Information

Voltage V	Current A	Power W	Description	Part no.
V1: 5 V_2: 3.3 V_3: 12 V_4: -12	I_1: 40 I_2: 40 I_3: 5.5 I_4: 2	250	CPCI 250 AC	**13100-141**
Power backplane with P47 connector 3 U, width 39.6 mm, 1 × connector position P47, 1 piece				**23098-105**
Power backplane with P47 connector 3 U, width 80.3 mm, 2 x connector positions P47 (side-by-side), 1 piece				**23098-115**
Power backplane with P47 connector 6 U, width 39.6 mm, 1 × connector position P47, top, 1 piece				**23098-116**
Power backplane with P47 connector 6 U, width 39.6 mm, 2 × connector position P47, one above the other, 1 piece				**23098-117**
Guide rail with keying/coding, groove width 2.0 mm, with 0.1" offset Standard pack quantity 50 pieces				**64560-071**

Note

- Output data at T_A = 0 ... 50 °C with forced air cooling of 2 m/s
- 47-pin CompactPCI connector to PICMG 2.11 specification

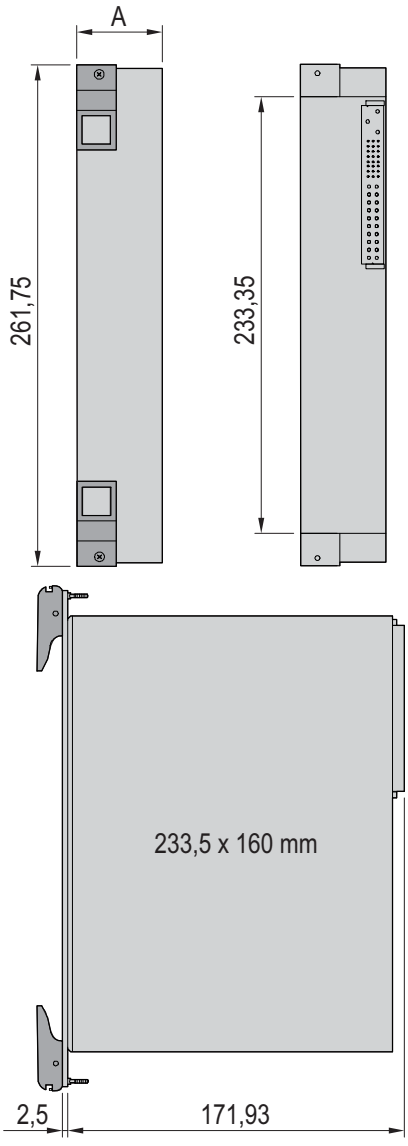
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Power supply – for CompactPCI and VME64x

AC/DC, 19", 6 U, quad



11308007



11302051

- Wide input voltage range 90 ... 264 V_{AC} with power factor correction (PFC)
- 4 output voltages
- Connector P 47
- Redundant operation with Current Share Bus (CSB), hot-swap
- CompactPCI signalling

Delivery comprises

Qty	Description
1	19" compatible power supply height 6 U width A: 8 HP depth 171.93 mm (160 mm board depth) connector P 47 front panel with handles and textile EMC gasket fitted

Order Information

Voltage V	Current A	Power W	Description	Part no.
V1: 5 V_2: 3.3 V_3: 12 V_4: -12	I_1: 50 I_2: 60 I_3: 12 I_4: 4	500	CPCI 500 AC	13100-145
Power backplane with P47 connector 6 U, width 39.6 mm, 1 × connector position P47, top, 1 piece				**23098-116**
Guide rail with keying/coding, groove width 2.0 mm, with 0.1" offset , Standard pack quantity 50 pieces				**64560-071**

Note

- Output data at T_A = -25 ... 55 °C with forced air cooling of 1.5 m/s
- 47-pin CompactPCI connector to PICMG 2.11 specification

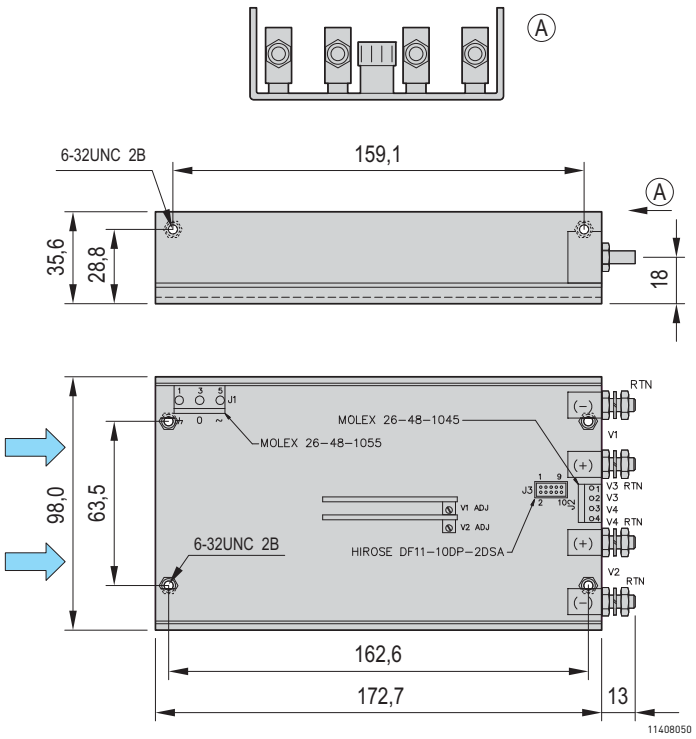
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Power supply – for CompactPCI and VME64x

AC/DC, open frame, 300 W, quad



11408002



11408050

- For CompactPCI and VME64x applications
- Wide input voltage range 85 ... 264 V_{AC}
- 4 output voltages
- High performance, efficiency typically 85 %
- Output power 300 W
- Signalling: Output voltage OK

Delivery comprises

Qty	Description
1	Open frame power supply, dimensions 36 x 99 x 173 mm; weight 850 g

Order Information

Voltage	Voltage min. ... max.	Current	Power	Description	Part no.
V	V	A	W		
V1: 5 V_2: 3.3 V_3: 12 V_4: 12	4.75 ... 5.25 3.14 ...3.46 – –	I_1: 40 I_2: 40 I_3: 4 I_4: 1.5	300	EF306-433	**11098-316**
Set of connectors with all input and output plugs, PU 1 kit					21009-039

Note

- Output data at -5 °C ... 50 °C
- Output voltages 5 V and 3.3 V adjustable, ± 10 %
- Forced cooling at 2 m/s (230 lfm) required
- With remote-control function Ext. ON/OFF
- With auxiliary supply 5 V/ 5 mA

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Power supply – for CompactPCI and VME64x

AC/DC, open frame, 600 W, quad



- For CompactPCI and VME64x applications
- Wide input voltage range 85 ... 264 V_{AC}
- 4 output voltages
- High performance

Delivery comprises

Qty	Description
1	Open frame PSU

Order Information

Voltage V	Current A	Power W	Description	d mm	Part no.
V1: 5 V_2: 3.3 V_3: 12 V_4: 12	I_1: 60 I_2: 35 I_3: 10 I_4: 4	560 2)	MP4 2E-1D-4LL-00	254.0	11098-212
V1: 5 V_2: 3.3 V_3: 12 V_4: 12	I_1: 60 I_2: 60 I_3: 10 I_4: 4	642 3)	MP6 2D-2E-4LL-00	279.4	11098-207
Accessories					
Set of connectors with all input and output plugs, PU 1 kit					21009-039

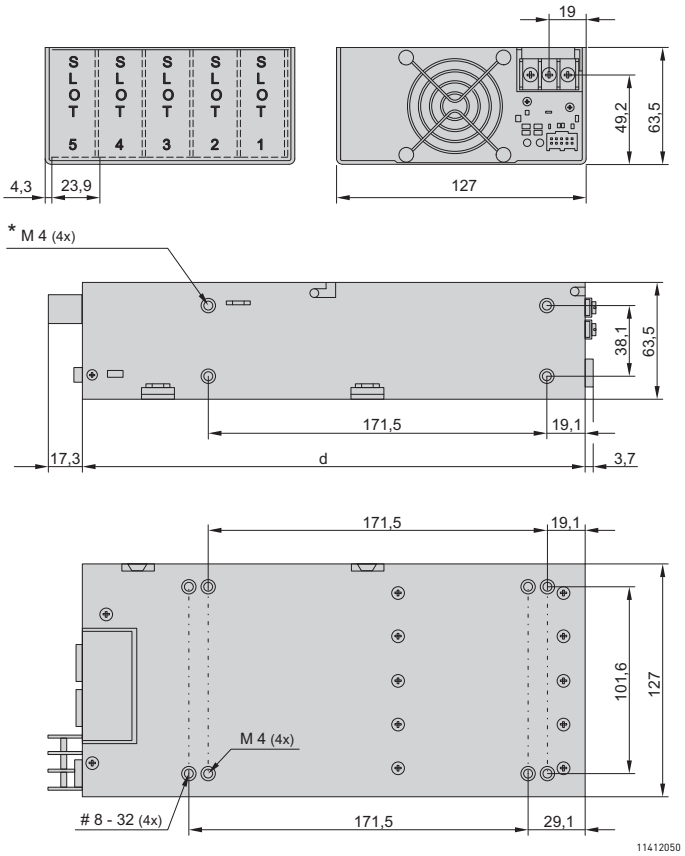
1) 10 % base load necessary, sum of 12 V outputs max. 144 W
2) Output max. 400 W at 85 V_{AC} ... 180 V_{AC}
3) Output max. 600 W at 85 V_{AC} ... 180 V_{AC}

Note

- Output data at -20 °C ... 50 °C
- Input: AC 85 ... 264 V (47 ... 440 Hz), DC 120 ... 350 V
- Output voltages adjustable, ±10 %
- Signalling: Input ok, DC output ok
- Other output voltages available on request

11405001

Photo shows 11098-212



11412050

* Assembly holes identical on both sides

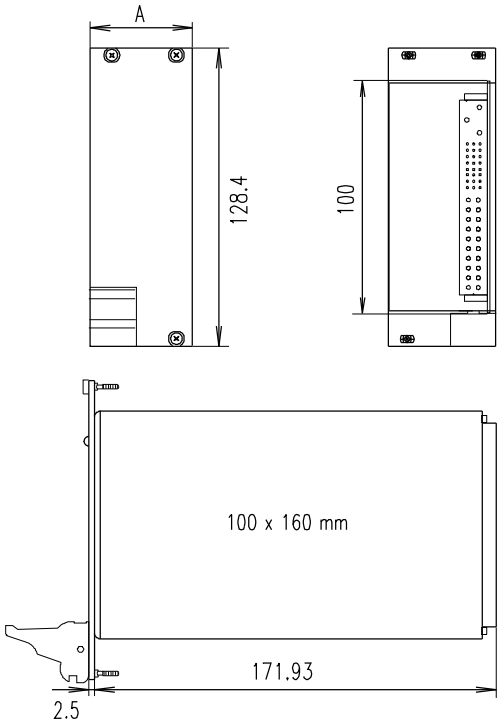
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Power supply – for CompactPCI and VME64x

DC/DC, 19", 3 U, quad



11302005



11302052

- Input voltage 48 V_{DC} (36 ... 75 V_{DC})
- 4 output voltages
- Connector P 47
- Redundant outputs with Current Share Bus (CSB), hot-swap
- CompactPCI signalling

CompactPCI®

Delivery comprises

Qty	Description
1	19" compatible power supply height 3 U width A: 8 HP depth 171.93 mm (160 mm board depth) connector P 47 front panel with handle and EMC contact strips (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
V1: 5 V_2: 3.3 V_3: 12 V_4: -12	I_1: 40 I_2: 40 I_3: 5.5 I_4: 2	250	CPCI 250 DC	13100-142
Power backplane with P47 connector 3 U, width 39.6 mm, 1 × connector position P47, 1 piece				**23098-105**
Power backplane with P47 connector 3 U, width 80.3 mm, 2 x connector positions P47 (side-by-side), 1 piece				**23098-115**
Power backplane with P47 connector 6 U, width 39.6 mm, 1 × connector position P47, top, 1 piece				**23098-116**
Power backplane with P47 connector 6 U, width 39.6 mm, 2 × connector position P47, one above the other, 1 piece				**23098-117**
Guide rail with keying/coding, groove width 2.0 mm, with 0.1" offset Standard pack quantity 50 pieces				**64560-071**

Note

- Output data at T_A = 0 ... 50 °C, with forced air cooling of 2 m/s
- 47-pin CompactPCI connector to PICMG 2.11 specification

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Power supply – for CompactPCI and VME64x

DC/DC, 19", 6 U, quad



11303002

- Input voltage range 48 V_{DC} (36 ... 72 V_{DC})
- 4 output voltages
- Connector P 47
- Redundant outputs with Current Share Bus (CSB), hot-swap
- Compact PCI signalling

Delivery comprises

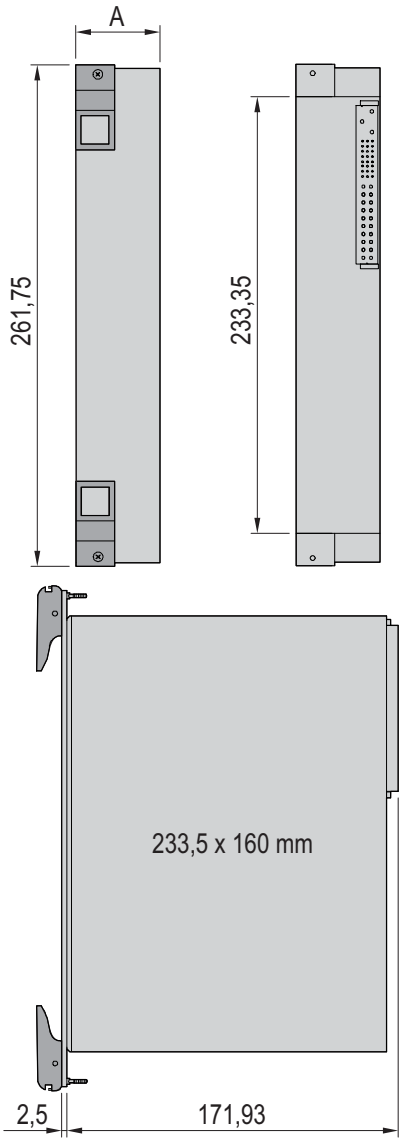
Qty	Description
1	19" compatible power supply height 3 U width A: 8 HP depth 171.93 mm (160 mm deep boards) connector P 47 (fitted) front panel with handles and EMC contact strip (fitted)

Order Information

Voltage V	Current A	Power W	Description	Part no.
V1: 5 V_2: 3.3 V_3: 12 V_4: -12	I_1: 50 I_2: 60 I_3: 12 I_4: 4	500	CPCI DC-6U-500	13100-146
Power backplane with P47 connector 6 U, width 39.6 mm, 1 × connector position P47, top, 1 piece				**23098-116**
Guide rail with keying/coding, groove width 2.0 mm, with 0.1" offset Standard pack quantity 50 pieces				**64560-071**

Note

- Output data at T_A = -10 ... 55 °C with forced air cooling of 2 m/s
- 47-pin CompactPCI connector to PICMG 2.11 specification



11302051

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Modification of off-the-shelf products	■ Minor modifications, e.g. other set output voltages, protective finishes
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academy	**Knowledge. Sharing. Partnerships.**
Knowledge transfer and partnership	■ Training, test reports, user reports, certificates, user manuals for download
lifecycle	**We are with you. For the entire product life.**
Flexible support throughout the product lifecycle	■ Repair, fast and straightforward, via online RMA form

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Power supply – ServicePLUS

Application examples and special devices created to customer specifications



11308002 11309004

Application: Redundant and uninterruptible 19" DC power supply units



11309002

Application: AC/DC switch-mode PSU for power supply to video monitoring systems



11309003

Application: AC/DC switch-mode power supply for telecommunications applications



11309001

Application: AC/DC linear regulator for communications systems (defence systems)



11309005

Application: DC/DC converter for railway applications



11309005

Application: DC/DC converter for supply power to fans (with monitoring)

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Appendix – Order notes

Packaging units

A packaging unit (PU) - e.g. carton, bag - contains the stated quantity. If you order the quantity 1, you will automatically receive the quantity defined as PU.

Example: EMC textile gasket
See page 5.22
Part number 21101-853

Quantity (per part number): 10 pieces

Order quantity: . . . . . Delivery quantity:

1 . . . . . 10 pieces
2 . . . . . 20 pieces
3 . . . . . 30 pieces

Standard pack quantity (SPQ)

Please take into consideration that deliveries may be carried out in the stated SPQs (SPQ, e.g. 5 pieces, 10 pieces, 50 pieces, etc.). Differing order quantities (e.g. 2 pieces) may be changed to the next possible delivery quantity = Standard Pack Quantity (in this case 10 pieces).

Example: Front horizontal rail
See page 5.31
Part number 34560-228

Quantity (per part number): 1 piece
Standard pack quantity (SPQ): 10 pieces

Order quantity:. . . . . Delivery quantity:

≤ 10. . . . . 10 pieces
$> 10 \leq 20$ . . . . . 20 pieces
$> 20 \leq 30$ . . . . . 30 pieces

Price list

Our price list is available by e-mail from your customer consultant. Please find all contact details at www.schroff.biz/contact.

Delivery times

Part numbers in bold face type are ready for despatch within 2 working days; part numbers in normal type are ready for despatch within 10 working days.

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