

Redundancy module Power Compact PC RE



General Data

Input rated voltage 24 - 48 Vdc

Output rated voltage 24 - 48 Vdc

Output rated current 40 A

Ambient temperature -40 °C to +70 °C

Efficiency >99 %

Protection index IP 20

Advantages

High efficiency

Error message via relay contact and LEDs

Safe parallel operation to increase power

Fully compatible with Top and Power Boost for your power supplies

Active operation for minimal power loss even in the event of a short circuit on the secondary side

Based on Mosfet technology

Applications

Redundancy module for decoupling from two power supplies on installation of a fail-safe power supply system. For machines and systems which place high requirements on operational safety.



Standards

Redundancy module
to UL 60950, UL 508

Safety:
EN 60950 (SELV), EN 60204 (PELV)

EMC:
EN 61000-6-3 (Interference emissions), EN 61000-6-2 (Interference immunity)

Approvals

UL 60950 (prepared), UL 508 (prepared), GL (prepared)

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2.1

2.2

3.1

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4.0

5.1

5.2



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Typ	PC-0624-400-0	PC-0648-400-0
Electrical data		
Input		
Input rated voltage	24 Vdc	48 Vdc
Input voltage range	10 - 36 Vdc	33 - 56 Vdc
Input rated current	2 x 20 A / 1x 40 A	2 x 20 A
Output		
Output voltage	24 Vdc	48 Vdc
Output voltage range	10 - 36 Vdc	33 - 56 Vdc
Voltage drop	max. 100 mV	max. 100 mV
Resistance to reverse feed max.	37 Vdc	58 Vdc
Output rated current	40.00 A	40.00 A
Internal fuse	No	No
Power Boost	200 A, 50 ms / 120 A, 4 s / 100 A, 8 s	160 A, 50 ms / 60 A, 4 s / 50 A, 8 s
Parallel connection	Yes	Yes
max. Power loss idling/nominal load	1,5 W / 9,5 W	1,5 W / 9,5 W
Efficiency	99,5%	99,5%
Signaling		
Power Good (DC OK)	Green LED per input	Green LED per input
Potential free signal contact	N/O contact	N/O contact
Approvals		
Approvals	UL 60950/ UL508 (prepared), GL (prepared)	UL 60950/ UL508 (prepared), GL (prepared)
Environment		
Ambient temperature	-40 °C to +70 °C	-40 °C to +70 °C
Storage temperature	-25 °C to +85 °C	-25 °C to +85 °C
Derating	-	-1,5 %/K > +65°C
Climatic category	3k3	3k3
Cooling method	convection	convection
Required minimum spacing (over/under)	50 mm	50 mm
Required minimum spacing (left/right)	0 mm	0 mm
Degree of pollution	2	2
Relative humidity	5 - 96 %	5 - 96 %
MTBF @ 50°C/500 V (Mil-HB-217F)	>500.000h	>500.000h
Safety and protection		
Protection index	IP 20	IP 20
Safety class (prepared)	III, without PE connection	III, without PE connection
Reverse connection protection	Yes	Yes
Order numbers		
Order Number	PC-0624-400-0	PC-0648-400-0

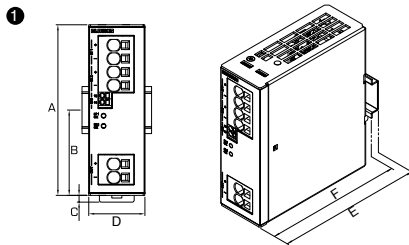


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Mechanical data	Typ						Dimension picture (in mm)					
	Connections input (direct plug-in technology Push-in)	Connections output (direct plug-in technology Push-in)	Terminals signaling	Fixing method	Mounting position	Weight	A	B	C	D	E	F
PC-0624-400-0	max. 16 mm ²	max. 16 mm ²	max. 2,5 mm ²	DIN Rail system TH 35	vertical	0,37 kg	127	63,5	5	42	120	112,5
PC-0648-400-0	max. 16 mm ²	max. 16 mm ²	max. 2,5 mm ²	DIN Rail system TH 35	vertical	0,37 kg	127	63,5	5	42	120	112,5

Dimension pictures



1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

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