



Industrial Power supplies Serial HARTING pCon 2000

for centralised power supply
in control cabinets with degree of protection IP 20

General Description

The power supplies of the product family HARTING pCon 2000 are designed for power supply solutions for control units, Ethernet and other automation components. With their wide range of input voltage, the units are suitable for world-wide use.

The quick connection technique guarantees easy installation.

Features

- Wide range input for world-wide use
- Active PFC
- High efficiency of up to 92 %
- Easy installation and toolless connection
- Range of operating temperature of up to 70 °C without derating

Advantages

- Wide operating temperature range
- Compact design and high power density
- Proof against sustained short-circuits, overloads and no-load operation
- International approvals
- Protection class II (no earth connection necessary)
- Proof against dynamic overload (150% rated current for up to 2.5 seconds)

Application fields

- Industrial automation
- Automotive industry
- Power generation and distribution



Industrial Power supply
HARTING pCon 2060-24
 for centralised power supply in control cabinets
 with degree of protection IP 20

2x spring-type terminals	IP 20	24 V DC	60 W
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Input		Output	
Rated voltage	100 to 240 V AC (Wide range input)	Output voltage	24 V DC \pm 1% (setting range 23 - 29 V)
Input voltage range	85 to 264 V AC (100 to 375 V DC)	Output current	2.5 A
Input rated current	< 0.7 A at 230 V < 1.3 A at 100 V	Max. output power	60 W
Input current	< 40 A (active limiting)	Main buffering time	> 100 ms (at 230 V AC) > 15 ms (at 115 V AC)
Input frequency	47 to 63 Hz	Remaining ripple	< 40 mVss (at rated values)
Input fuse	internal T 4 A	Sensibility	< 2%
Recommended backup fuse	B 16 A (EN 60 898)	Protection function	Proof against sustained short-circuits, overloads and no-load operation
Protection class	II (no earth connection necessary)	Overload behavior	Limiting current 2.7 A (static) / 5.0 A (dynamic)
		Output voltage indication	LED Green
General data			
Termination Power / Load	Spring-type terminal 0.3 - 2.5 mm ² / AWG 28 - 12 (solid) / 0.3 - 4 mm ² / AWG 28 - 12 (stranded)		
Product standards	EN 60 950 (SELV)	Efficiency	91.5% (230 V) / 90% (115 V)
Approvals	CE, GS, cCSA _{US} (UL 60 950, UL 508)	Weight	approx. 250 g

Identification	Part number	Drawing	Dimensions in mm
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HARTING pCon 2060-24 Industrial Power supply for mounting onto 35 mm top-hat mounting rail according to DIN EN 60 715	20 80 000 3121		
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Industrial Power supply
HARTING pCon 2060-48
 for centralised power supply in control cabinets
 with degree of protection IP 20

2x spring-type terminals	IP 20	48 V DC	60 W
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Input		Output	
Rated voltage	100 to 240 V AC (Wide range input)	Output voltage	48 V DC \pm 1% (setting range 48 - 52 V)
Input voltage range	85 to 264 V AC (100 to 375 V DC)	Output current	1.25 A
Input rated current	< 0.7 A at 230 V < 1.3 A at 100 V	Max. output power	60 W
Input current	< 40 A (active limiting)	Main buffering time	> 100 ms (at 230 V AC) > 15 ms (at 115 V AC)
Input frequency	47 to 63 Hz	Remaining ripple	< 40 mV _{SS} (at rated values)
Input fuse	internal T 4 A	Sensibility	< 2%
Recommended backup fuse	B 16 A (EN 60 898)	Protection function	Proof against sustained short-circuits, overloads and no-load operation
Protection class	II (no earth connection necessary)	Overload behavior	Limiting current 1.5 A (static) / 2.5 A (dynamic)
		Output voltage indication	LED Green
General data			
Termination Power / Load	Spring-type terminal 0.3 - 2.5 mm ² / AWG 28 - 12 (solid) / 0.3 - 4 mm ² / AWG 28 - 12 (stranded)		
Product standards	EN 60 950 (SELV)	Efficiency	92% (230 V) / 90% (115 V)
Approvals	CE, GS, cCSA _{US} (UL 60 950, UL 508)	Weight	approx. 250 g

Identification	Part number	Drawing	Dimensions in mm
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<p>HARTING pCon 2060-48</p> <p>Industrial Power supply for mounting onto 35 mm top-hat mounting rail according to DIN EN 60 715</p>	<p>20 80 000 3122</p>		
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Industrial Power supplies
Serial HARTING pCon 7000
 for decentralised power supply
 with degree of protection IP 65 / IP 67

General Description	Features
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The power supplies of the product family HARTING pCon 7000 are designed for the decentralised supply of power to control units, Ethernet and other automation components in industrial areas and harsh environments. With their wide range of input voltage, the units are suitable for world-wide use. As a result the devices can be installed without problems in any factory in the world; in production cells or machines or on walls, columns and mounting rails.

For easy installation, mounting sets for panels or standard DIN rails are available. The pluggable connections guarantee an easy and secure assembly. The pCon 7000 Industrial Power supply is available with either M12 or Han® 4 A output terminations.

- Wide range input for world-wide use
- Active PFC
- High efficiency
- Easy installation and pluggable connections

Advantages	Application fields
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- High degree of protection IP 65 / 67
- Robust metal housing, powder coated
- Wide operating temperature range and mechanical stability for highest demands
- Can be used directly in industrial environments
- Compact design and high power density
- Shock and vibration resistant
- Proof against sustained short-circuits, overloads and no-load operation
- International approvals

- Industrial automation
- Automotive industry
- Power generation and distribution
- Railway applications

Technical characteristics

Design features

Housing	Zinc die-cast, powder coated RAL 7037
Dimensions (W x H x D)	77.5 x 87 x 120 mm (without connectors)
Weight	approx. 1.2 kg
Degree of protection acc. to DIN 60 529	IP 65 / IP 67

Mechanical stability

Shock	acc. to IEC 60 068-2-27 (Half sinus shock 15 g / 11 ms and 5 g / 30 ms)
Vibration	according to DIN EN 60 068-2-6
Rail standard	according to DIN EN 50 155, Class 1

Environmental conditions

Operating / storage temperature	-25 °C to +75 °C / -40 °C to +85 °C
Relative humidity	30 % to 95 % (non-condensing)

Approvals

CE, GS, cCSA_{US} (UL 60950, UL 508)

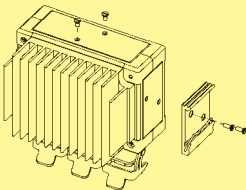
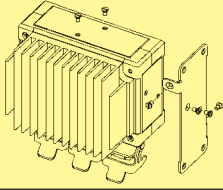
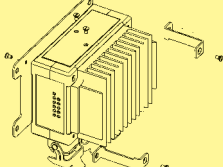
Product standards

EN 50 178 (VDE 0160), EN 60 950 (SELV), EN 60 204 (PELV)

EMC standards

Interference immunity ESD	IEC 61 000-4-2
Interference immunity HF, radiated	IEC 61 000-4-3
Interference immunity Burst	IEC 61 000-4-4
Interference immunity Surge	IEC 61 000-4-5
Interference immunity	IEC 61 000-4-6
Emitted radiation	EN 55 011, (EN 55 022) class B
System perturbation	IEC 61 000-3-3
Rail standard	EN 50 121-3-2

Accessories

Identification	Part number	Drawing	Dimensions in mm
Set for assembly on standard rail according to DIN EN 60715	20 80 000 0003		
Set for panel mounting vertical assembly	20 80 010 0001		
Set for panel mounting flat assembly	20 80 024 0002		



Industrial Power supply HARTING pCon 7095-24A

for decentralised power supply with degree of protection IP 65 / IP 67
including 2x Han® 4 A output termination

Han® 3 A Male / Han® 4 A female	IP 65 / IP 67	24 V DC	95 W
Input		Output	
Rated voltage	110 to 240 V AC (Wide range input)	Output voltage	24 V DC (fixed ± 0.5 V tolerance)
Input voltage range	85 to 264 V AC (100 to 375 V DC)	Output current	4 A
Input rated current	< 2 A	Max. output power	95 W
Input current	< 30 A (active limiting)	Main buffering time	> 20 ms (at 230 V AC)
Input frequency	47 to 63 Hz	Remaining ripple	< 50 mVss (at rated values)
Input fuse	internal T 2 A	Sensibility	< 2%
Recommended backup fuse	B 10 A (EN 60 898)	Protection function	Proof against sustained short-circuits, overloads and no-load operation
Protection class	I (including PE termination)	Overload behavior	Limiting current > 1.4 x I _{nom} (U/I characteristic)
Power input termination	Han® 3 A male insert	Output termination	2x Han® 4 A female insert
Input voltage indication	LED Green	Output voltage indication	LED Yellow (OFF at V _{out} < 22.5 V DC)
General data			
Product standards	EN 60 950 (SELV)	Efficiency	> 85%
Approvals	GS, cCSA _{US} (UL 60950, UL 508)		

Identification	Part number	Drawing	Dimensions in mm
HARTING pCon 7095-24A Industrial Power supply with Han® 4 A termination	20 80 300 3011		



Industrial Power supply HARTING pCon 7095-24B

for decentralised power supply with degree of protection IP 65 / IP 67
including 2x M12, A-coding output termination

Han® 3 A Male / M12, A-coding female	IP 65 / IP 67	24 V DC	95 W
Input		Output	
Rated voltage	110 to 240 V AC (Wide range input)	Output voltage	24 V DC (fixed ± 0.5 V tolerance)
Input voltage range	85 to 264 V AC (100 to 375 V DC)	Output current	4 A
Input rated current	< 2 A	Max. output power	95 W
Input current	< 30 A (active limiting)	Main buffering time	> 20 ms (at 230 V AC)
Input frequency	47 to 63 Hz	Remaining ripple	< 50 mVss (at rated values)
Input fuse	internal T 2 A	Sensibility	< 2%
Recommended backup fuse	B 10 A (EN 60 898)	Protection function	Proof against sustained short-circuits, overloads and no-load operation
Protection class	I (including PE termination)	Overload behavior	Limiting current > 1.4 x I _{nom} (U/I characteristic)
Power input termination	Han® 3 A male insert	Output termination	2x M12, A-coding, female
Input voltage indication	LED Green	Output voltage indication	LED Yellow (OFF at V _{out} < 22.5 V DC)
General data			
Product standards	EN 60 950 (SELV)	Efficiency	> 85%
Approvals	GS, cCSA _{US} (UL 60 950, UL 508)		

Identification	Part number	Drawing	Dimensions in mm
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HARTING pCon 7095-24B
Industrial Power supply
with M12, A-coding termination

20 80 300 3012

