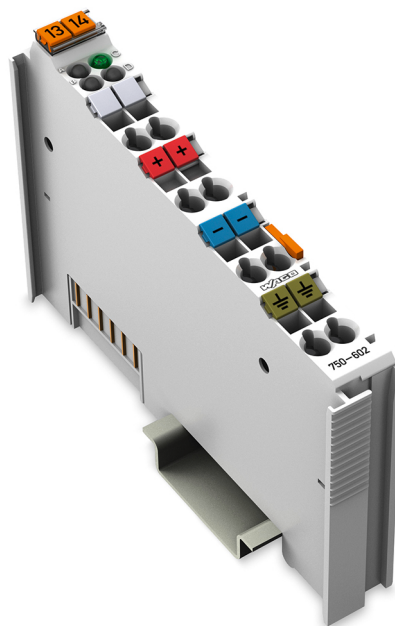


WAGO I/O System 750/753

Power supply; 24 VDC

750-602; 750-602/025-000



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WAGO GmbH & Co. KG

Hansastraße 27
D - 32423 Minden

Phone: +49 571/887 – 0
E-Mail: ✉ info@wago.com
Internet: 🌐 www.wago.com

Technical Support

Phone: +49 571/887 – 44555
E-Mail: ✉ support@wago.com
Internet: 🌐 www.wago.com/support

Every conceivable measure has been taken to ensure the accuracy and completeness of this documentation. However, as errors can never be fully excluded, we always appreciate any information or suggestions for improving the documentation.

E-Mail: ✉ documentation@wago.com

We wish to point out that the software and hardware terms as well as the trademarks of companies used and/or mentioned in the present manual are generally protected by trademark or patent.

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1 Provisions

1.1 Scope of Applicability

This document applies to the following products:

🔗 **750-602** (24V DC Power Supply) Power supply; 24 VDC.

From hardware version	05
From firmware version	--
Product detail page	🔗 www.wago.com/750-602

🔗 **750-602/025-000** (24V DC Power Supply /T) Power supply; 24 VDC; ext. temperature.

From hardware version	03
From firmware version	--
Product detail page	🔗 www.wago.com/750-602/025-000

Note

Note applicable documents!

The complete operating instructions for the products consist of several applicable documents. The products must only be installed and operated in accordance with the complete operating instructions. Knowledge of all applicable documents is required for proper use. Please find all documents and information on the detailed product pages.

Applicable document

📄 System Manual I/O System 750/753

- Provisions
- Safety
- Planning
- Transport and Storage
- Assembly and Disassembly
- Conductor Termination
- Decommissioning

2 Overview

The supply module feeds an electrically isolated 24 VDC power supply to downstream I/O modules for the field level.

The supply module is fed from an external source via CAGE CLAMP® connections.

The 24 VDC power supply for the field level is passed on via the power jumper contacts (spring contacts).

A green status LED indicates the status of the operating voltage at the power jumper contacts.

3 Properties

3.1 View

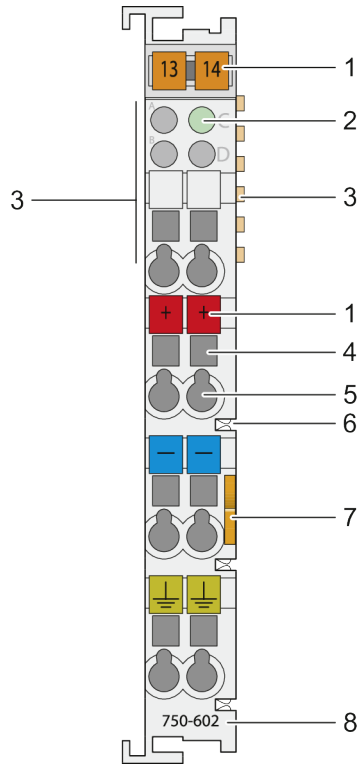


Figure 1: View

1	Slot for Mini-WSB (optional)	☐ System Manual I/O System 750/753
2	Indicator	🔗 Indicators [> 7]
3	Data contacts	☐ System Manual I/O System 750/753
4	Access to open the associated CAGE CLAMP® connection	☐ System Manual I/O System 750/753
5	CAGE CLAMP® connection	🔗 Wiring Interface [> 7] and ☐ System Manual I/O System 750/753
6	Power jumper contacts (spring)	🔗 Power Jumper Contacts [> 8] and ☐ System Manual I/O System 750/753
7	Release tab	☐ System Manual I/O System 750/753
8	Item number	🔗 Scope of Applicability [> 4]

3.2 Indicators

A green status LED indicates the status of the operating voltage at the power jumper contacts.

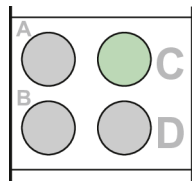


Figure 2: Indicator

Designation	LED	Status	Function
Status of the operating voltage – Power jumper contacts	C	Off	No 24 V operating voltage at the power jumper contacts
		Green	24 V operating voltage applied to the power jumper contacts

3.3 Wiring Interface

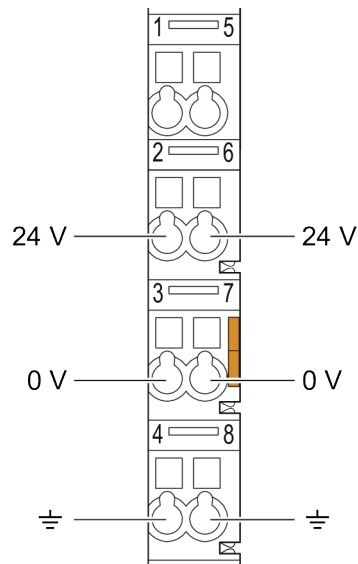


Figure 3: CAGE CLAMP® Connections

Designation	Connection	Function
24 V	2	Feed-in, field supply, 24 VDC
	6	
0 V	3	Feed-in, field supply, 0 VDC
	7	
Ground	4	Feed-in, field supply, ground
	8	

3.4 Power Jumper Contacts

The potential for the field supply is fed in via the spring contacts.

For additional information on the Power Jumper Contacts, please see

📖 [System Manual I/O System 750/753](#).

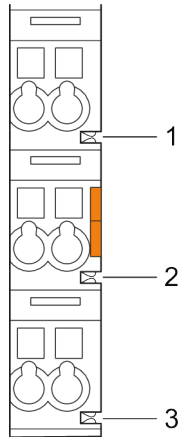


Figure 4: Power Jumper Contacts

No.	Type
1	Groove with spring contact
2	
3	

Arrangement in the Bus Node

For electrical compatibility requirements see Section [🔗 Schematic Circuit Diagram \[p. 9\]](#).

3.5 Schematic Circuit Diagram

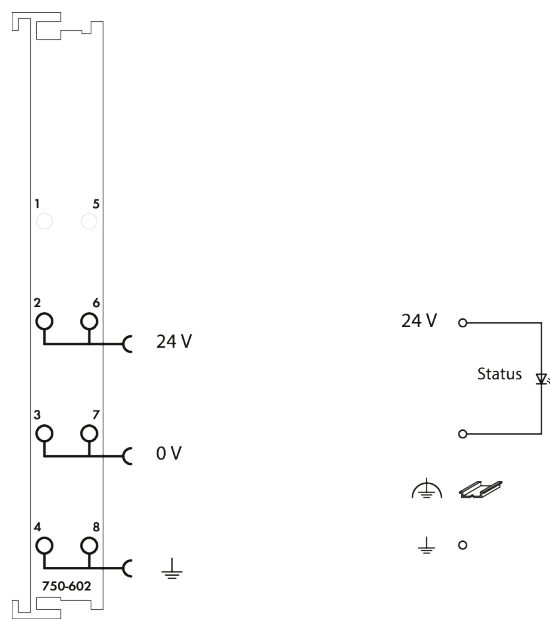


Figure 5: Schematic Circuit Diagram

For information on the system power supply, please see [System Manual I/O System 750/753](#).

4 Planning

This section provides helpful information for planning the use of the product in a node.

4.1 Compatibility

The power supply can be operated on all head stations of the WAGO I/O System 750/753.

4.2 Requirements for Wiring and Accessories

The 24 V input voltage for the field supply, which is supplied via the CAGE CLAMP® connections, must be protected by an external fuse.

Table 1: Protection of the Power Supply

24 V Input Voltage	Suitable Fuse
Field supply	Max. 10 A, slow; min. 30 VDC

When using the supply module, pay special attention to the permissible voltage of the subsequent I/O modules.

Power supply concepts and the node structure, e.g., for certified operation of the supply module in shipbuilding or onshore/offshore applications, can be found in the [System Manual I/O System 750/753](#).

5 Appendix



5.1 Technical Data, Approvals, Guidelines and Standards

Note

Subject to changes!

Please also observe the further product documentation! You can generate the current datasheet at any time at: www.wago.com /<item number>.

See also

-  Data sheet 750-602 [▶ 12]
-  Data sheet 750-602/025-000 [▶ 15]



This supply module provides the I/O modules with the corresponding supply potential.

The maximum current provided by the supply module is 10 A. When configuring the system, the total current must not be exceeded.

Should higher currents be necessary, an intermediate supply module must be added to the assembly.

Technical data

Signal type	Voltage
Signal type (voltage)	24 VDC
Supply voltage (system)	5 VDC; via data contacts
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via CAGE CLAMP® connection; transmission (field-side supply voltage only) via spring contact
Current carrying capacity (power jumper contacts)	10 A
Number of outgoing power jumper contacts	3
Indicators	LED (C) green: operating voltage status: power jumper contacts

Connection data

Connectable conductor materials	Copper
Connection type 1	Field supply
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Connection technology: field supply	6 x CAGE CLAMP®

Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inches

Mechanical data

Mounting type	DIN-35 rail
Pluggable connector	fixed

Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.203 MJ
Weight	43.3 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-4, marine applications
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Product classification

UNSPSC	39121410
--------	----------

Environmental Product Compliance

CAS-No.	1303-86-2 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead
RoHS Compliance Status	Compliant, With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	f9f58726-6a40-41db-b784-5f962baa819a
SCIP notification number (Belgium)	f0e437c7-fb39-47a7-8dd2-5c0af3a38449
SCIP notification number (Bulgaria)	a7d7f013-1f6e-46e4-b00c-071c7b9be1c1
SCIP notification number (Czech Republic)	fd3436aa-c1ce-40b7-99a4-c971cfd7e36
SCIP notification number (Denmark)	82111688-daf8-4714-ad8c-fe00768cf990
SCIP notification number (Finland)	ffc96f44-6bc6-46b5-80eb-36ec166dd20a
SCIP notification number (France)	7afebf55-3b17-4a74-802e-79ed938f335c
SCIP notification number (Germany)	86baf938-3fb1-4b5f-8f1d-6379829d3649
SCIP notification number (Hungary)	730a48a6-7578-4274-929c-51c0e30fbd4
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SCIP notification number (Netherlands)	aa9c6051-99b6-4f4a-a9db-975b39623413
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SCIP notification number (Romania)	4b580779-077f-4187-9d55-050ea8a37ec7
SCIP notification number (Sweden)	49b3574e-440d-484f-973b-0d57ab50ad5b

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-SPP750

Declarations of conformity and manufacturer's declarations

Approval Standard Certificate Name

EU-Declaration of Conformity
WAGO GmbH & Co. KG

-

-

UK-Declaration of Conformity
WAGO GmbH & Co. KG

-

-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	22-2219060
BSH Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
BV Bureau Veritas S.A.	-	13453/E0 BV
DNV DNV GL SE	DNV-CG-0339, Aug.2021	TAA0000194
KR Korean Register of Shipping	-	KR HMB05880-AC001
LR Lloyds Register EMEA	-	LR22180952TA
PRS Polski Rejestr Statków	-	TE/1101/880590/23
RINA RINA Germany GmbH	-	ELE343521XG001

Approvals for hazardous areas



Approval Standard Certificate Name

ATEX
TUEV Nord Cert GmbH

EN 60079-0

TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)

CCCEX
CQST/CNEX

CNCA-C23-01

2020312310000213 (Ex ec IIC T4 Gc)

IECEx
TUEV Nord Cert GmbH

IEC 60079-0

IECEx TUN 14.0035 X (Ex ec IIC T4 Gc)

INMETRO
TUV Rheinland do Brasil Ltda.

IEC 60079-0

TUV 12.1297 X

KTL
Korea Testing Laboratory

KOSHA Article 34,
IEC60079-0

20-KA4BO-0097X

UKEx
WAGO GmbH & Co. KG

EN 60079-0

UKCA_WA
GO22UKEX003X_ec



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The maximum current provided by the supply module is 10 A. When configuring the system, the total current must not be exceeded.

Should higher currents be necessary, an intermediate supply module must be added to the assembly.

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Height	100 mm / 3.937 inches
Depth	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inches

Mechanical data

Mounting type	DIN-35 rail
Pluggable connector	fixed

Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.349 MJ
Weight	44 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	-20 ... +60 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
Relative humidity (with condensation)	Short-term condensation per Class 3K6/IEC EN 60721-3-3 and E-DIN 40046-721-3, accounting for a temperature range of -20 to +60 °C (except for wind-driven precipitation, water and ice formation)
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-4, marine applications
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Product classification

UNSPSC	39121410
--------	----------

Environmental Product Compliance

CAS-No.	25550-51-0
REACH Candidate List Substance	4-Methyl-1,2-cyclohexanedicarboxylic anhydride
RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Austria)	876ba9aa-4cee-42fb-a1a4-4bb7c3afae2e
SCIP notification number (Belgium)	ce81da34-e892-4be5-adfd-8d4d95113908
SCIP notification number (Bulgaria)	4882de39-01c9-4f0e-b73a-bd25c53bbb13
SCIP notification number (Czech Republic)	09de7c4f-ea20-44ea-b6de-2557bdc7e3f0
SCIP notification number (Denmark)	72d79e96-e122-45d9-9917-0df985440334
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SCIP notification number (Romania)	3f71d94c-c58b-48db-86b9-3b36ea62721d
SCIP notification number (Sweden)	04d40687-f427-43c7-bd59-75e4bd137a0e

Approvals / Certificates

General approvals



General approvals

UL
Underwriters Laboratories
Inc. (ORDINARY LOCATIONS)
UL 508
E175199

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-SPP750

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BSH Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
LR Lloyds Register	-	LR2475997TA
PRS Polski Rejestr Statków	-	TE/1102/880590/23

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Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)
CCCEX CQST/CNEX	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
IECEX TUEV Nord Cert GmbH	IEC 60079-0	IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079-0	TÜV 12.1297 X
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA GO22UKEX003X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: www.wago.com

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WAGO GmbH & Co. KG

Postfach 2880 · D - 32385 Minden
Hansastraße 27 · D - 32423 Minden

✉ info@wago.com
🌐 www.wago.com

Headquarters	+49 571/887 – 0
Sales	+49 (0) 571/887 – 44 222
Order Service	+49 (0) 571/887 – 44 333