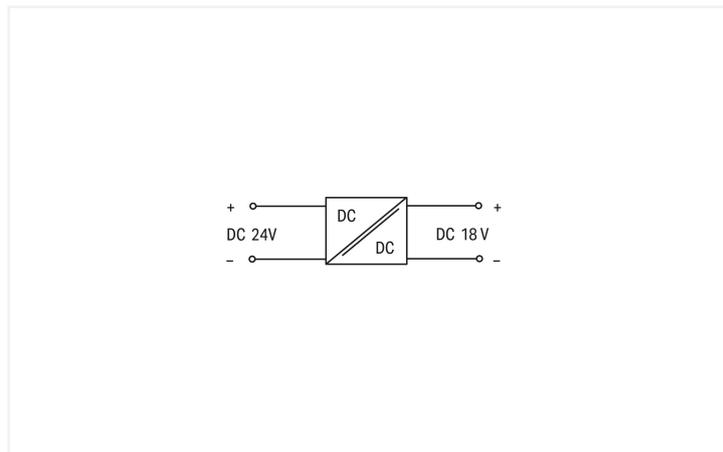


## Data Sheet | Item Number: 288-895

DC/DC Converter; 24 VDC input voltage; 18 VDC output voltage; 0.4 A output current; galvanically isolated; 2,50 mm<sup>2</sup>

<https://www.wago.com/288-895>



### Notes

#### Safety Information

According to the DALI specification, DALI ECGs have only basic isolation from the power supply. The DC/DC converter (288-895) does not offer any additional protective measures against the power supply, i.e., the input voltage cannot be regarded as SELV. Supplying the DC/DC converter (288-895) from a separate power supply unit is recommended and the necessary protections against contact must be observed.

### Technical data

#### Input

Nominal input voltage $U_{i, \text{nom}}$	24 VDC
Input voltage range	19 ... 36 VDC
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 0.53 \text{ A (19 VDC); } \leq 0.26 \text{ A (36 VDC)}$

#### Output

Nominal output voltage $U_{o, \text{nom}}$	18 VDC
Output voltage range	$\pm 2 \%$
Nominal output current $I_{o, \text{nom}}$	0.4 A

### Efficiency/Power Losses

Efficiency (typ.)	82 %
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### Safety and protection

Isolation voltage (AC)	0.9 kVAC
Pollution degree	2
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	No
Series operation	No

## Connection Data

Note (conductor cross-section)	12 AWG: THHN, THWN	<b>Connection 1</b>	
		Connection technology	CAGE CLAMP®
		WAGO connector	WAGO 256 Series
		Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
		Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
		Strip length	5 ... 6 mm / 0.2 ... 0.24 inches

## Physical data

Width	50 mm / 1.969 inches
Height	85 mm / 3.346 inches
Depth from upper-edge of DIN-rail	25 mm / 0.984 inches

## Mechanical data

Housing design	Mounting carrier
Mounting type	DIN-35 rail

## Material data

Fire load	2.189 MJ
Weight	76.7 g

## Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +80 °C
Relative humidity	≤ 85 % (non-condensing)
Operating altitude (max.)	2000 m

## Standards and Specifications

Conformity marking	CE
EMC immunity to interference	per EN 61000-6-2* *only in connection with 750-641 DALI/DSI Master Module
EMC emission of interference	per EN 61000-6-3*, *only in connection with 750-641 DALI/DSI Master Module

## Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	5 (1) pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966152609
Customs tariff number	85044083900

Product Classification	
UNSPSC	39121006
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
CAS-No.	12060-00-3 1303-86-2 1317-36-8 7439-92-1 79-94-7 80-43-3
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide Lead titanium oxide (PbTiO3) Peroxide, bis(1-methyl-1-phenylethyl)
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	fb5e3d66-f782-444b-854b-ba546e10ff01
SCIP notification number (Belgium)	2208cd58-564c-4e97-a74c-4e55763255b9
SCIP notification number (Bulgaria)	7c317f44-c0ce-4c11-91f5-9081dba30f0a
SCIP notification number (Czech Republic)	4d65ffc4-b0c7-4df1-84b7-9a92c84bb15c
SCIP notification number (Denmark)	98705a12-fd6e-49a2-b11b-5815d81245b9
SCIP notification number (Finland)	daf6cef0-4e02-4ea3-9698-3a31f26789bd
SCIP notification number (France)	b9ed627c-0f22-4499-9d5e-eadc4cb47a2c
SCIP notification number (Germany)	f235937b-b687-4bbe-8a79-d110d2647b3a
SCIP notification number (Hungary)	f7390362-11da-4f40-97f3-b541e3ac557c
SCIP notification number (Italy)	2b474ae1-208b-4542-ab43-b34c980743f7
SCIP notification number (Netherlands)	66ed3e96-174d-4597-a2bb-44db39ab4a75
SCIP notification number (Poland)	3fc3eb3a-e5fe-4bb7-a915-217091ffc860
SCIP notification number (Romania)	f1a14c28-5f96-41e3-aacc-7738dd9f805b
SCIP notification number (Sweden)	0f147981-1cb2-4f4c-a901-f59b1403b2db

**Approvals / Certificates**

General approvals			Declarations of conformity and manufacturer's declarations		
			<b>Approval</b>	<b>Standard</b>	<b>Certificate Name</b>
			EAC	TP TC 020/2011	EAC CoC 03081
GZO Almaty Standart			EU-Declaration of Confor- mity	-	-
			WAGO GmbH & Co. KG		

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	22-2219060
DNV DNV GL SE	DNV-CG-0339, Aug. 2021	TAA0000194
LR Lloyds Register EMEA	-	LR22180952TA
RINA RINA Germany GmbH	-	ELE343521XG001

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 288-895 <a href="#">↓</a>

Documentation

Bid Text			
288-895	19.02.2019	xml 3.39 KB	<a href="#">↓</a>
288-895	20.11.2015	doc 24.50 KB	<a href="#">↓</a>

Instruction Leaflet			
DC/DC Converter	V 1.1.0 19.01.2021	pdf 911.19 KB	<a href="#">↓</a>

CAD/CAE-Data

CAE data	
EPLAN Data Portal 288-895	<a href="#">↓</a>
WSCAD Universe 288-895	<a href="#">↓</a>

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Marking

##### 1.1.1.1 Marking strip



**Item No.: 709-196**

Marking strips; for laser printer; translucent



**Item No.: 709-177**

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; translucent



**Item No.: 709-178**

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white

#### 1.1.2 Tool

##### 1.1.2.1 Operating tool



**Item No.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured