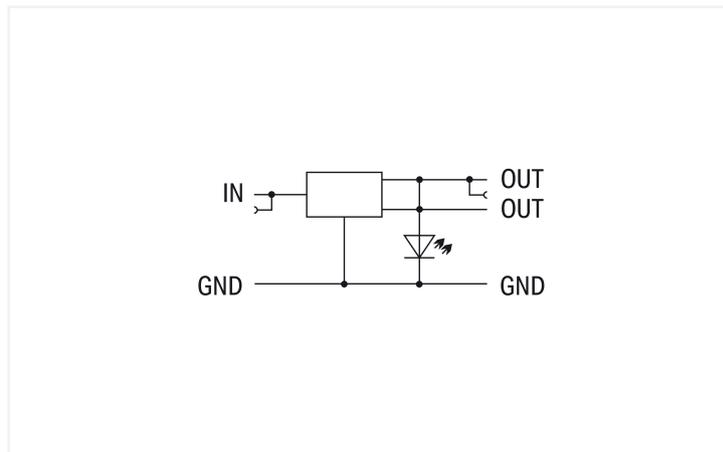


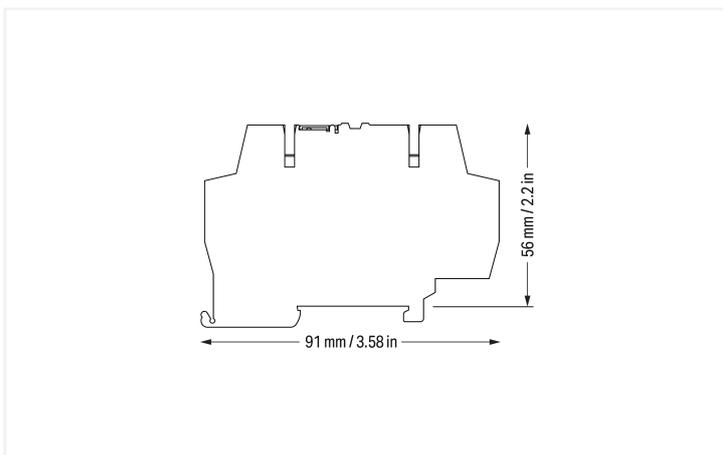
Data Sheet | Item Number: 859-806

DC/DC Converter; 12 VDC input voltage; 12 VDC output voltage; 0.5 A output current

<https://www.wago.com/859-806>



Similar to illustration



Technical data

| Input | |
|------------------------------------|---------------|
| Nominal input voltage $U_{i, nom}$ | 12 VDC |
| Input voltage range | 8 ... 16 VDC |
| Nominal mains frequency range | 0 Hz |
| Mains failure hold-up time | ≥ 0.5 ms |

| Output | |
|-------------------------------------|--|
| Nominal output voltage $U_{o, nom}$ | 12 VDC |
| Output voltage range | ± 2 % |
| Nominal output current $I_{o, nom}$ | 0.5 A |
| Operating voltage feedthrough | ≤ 0.2 % |
| Load regulation | ≤ 0.5 % |
| Residual ripple | ≤ 100 mV |
| Switching frequency | 400 kHz (Nominal) |
| Overload behavior | 1 A, max. 1 min (permanent overload leads to the destruction of the module); short-circuit-protected |

Signaling and Communication

| | |
|-----------|---------|
| Signaling | 1 x LED |
|-----------|---------|

Efficiency/Power Losses

| | |
|-------------------|------|
| Efficiency (typ.) | 89 % |
|-------------------|------|

Circuit Protection

| | |
|---------------|------------|
| Internal fuse | 2 A (slow) |
|---------------|------------|

Safety and protection

| | |
|----------------------------|--------------------|
| Protection class | III |
| Protection type | IP20; per EN 60529 |
| Reverse voltage protection | Yes |
| Pollution degree | 2 |
| Series operation | No |

Connection Data

| | |
|------------------------|---|
| Number of jumper slots | 2 |
|------------------------|---|

Connection 1

| | |
|-------------------------|--|
| Connection technology | CAGE CLAMP® |
| WAGO connector | WAGO 859 Series |
| 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 | 5 ... 6 mm / 0.2 ... 0.24 inches |

Physical data

| | |
|-----------------------------------|----------------------|
| Width | 6 mm / 0.236 inches |
| Height | 91 mm / 3.583 inches |
| Depth from upper-edge of DIN-rail | 56 mm / 2.205 inches |

Mechanical data

| | |
|----------------|---------------------------|
| Housing design | Rail-mount terminal block |
| Mounting type | DIN-35 rail |

Material data

| | |
|-----------|----------|
| Fire load | 0.313 MJ |
| Weight | 23 g |

Environmental requirements

| | |
|---------------------------------------|---------------------------------|
| Ambient temperature (operation) | 0 ... +40 °C |
| Relative humidity | 5 ... 85 % (non-condensing) |
| Operating altitude (max.) | 2000 m |
| Temperature range of connection cable | ≥ (T _{ambient} + 15 K) |

Standards and Specifications

| | |
|--------------------------|------------------------------|
| Conformity marking | CE |
| Standards/specifications | EN 61000-6-2 EN 61000-6-4 |

Commercial data

| | |
|-----------------------|--------------------------|
| Product Group | 6 (INTERFACE ELECTRONIC) |
| PU (SPU) | 25 (1) pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4050821771050 |
| Customs tariff number | 85044083900 |

Product Classification

| | |
|-----------|----------------------|
| UNSPSC | 39121004 |
| ETIM 9.0 | EC002540 |
| ETIM 10.0 | EC002540 |
| ECCN | NO US CLASSIFICATION |

Environmental Product Compliance

| | |
|---|---|
| CAS-No. | 1303-86-2 1317-36-8 7439-92-1 75980-60-8 79-94-7 |
| REACH Candidate List Substance | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 6(c) 7(a) 7(c)-I 7(c)-II |
| SCIP notification number (Bulgaria) | cdcf6297-e839-4ee1-b127-53c6f15125ac |
| SCIP notification number (Czech Republic) | 93fda6ae-0e9c-4226-b0dc-ac7a27622ff9 |

Approvals / Certificates

General approvals

Declarations of conformity and manufacturer's declarations



| Approval | Standard | Certificate Name |
|---|----------------|------------------|
| EAC GZO Almaty Standart | TP TC 020/2011 | EAC CoC 03081 |
| UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508 | E175199 Sec.4 |

| Approval | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 859-806



CAD/CAE-Data

CAD data

2D/3D Models 859-806

