

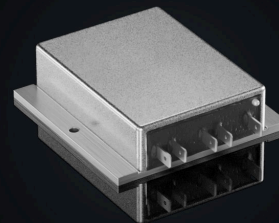


PRODUCT DATASHEET

257LE-48-SD

Item No. 257.020

257LE-48-SD | DC/DC buck-boost converter 24 VDC to 48.40 VDC, 228 W



«Designed in Switzerland, made in Germany, proven in the World»

INPUT VOLTAGE

10 - 35 VDC

OUTPUT VOLTAGE

48.4 VDC

OUTPUT POWER

228 W

DIMENSIONS & WEIGHT

**90 x 90 x 26 mm ·
360 g**

KEY SPECIFICATIONS

Isolation	Non-isolated
Input voltage	10 - 35 VDC (nom. 24 VDC)
Output voltage	48.4 VDC
Output current	4.75 A
Output power	228 W
Max. efficiency	98 %
Operating temperature	-40 to 85 °C
Dimensions (L x W x H)	90 x 90 x 26 mm
Weight	360 g
Mounting	Wall mounting
Connection	Flat blade terminals
Max. input current	35 A
Recommended input fuse	45 A
Switching frequency	116 kHz

PRODUCT OVERVIEW

The 257LE-48-SD by Demke Electronic is a non-isolated DC/DC buck-boost converter for a nominal input voltage of 24 VDC. It operates across an input voltage range of 10 to 35 VDC and delivers 48.40 VDC at up to 4.75 A, equivalent to 228 W of output power. Efficiency reaches up to 98% at nominal input voltage and full load.

PRODUCT FEATURES

- CC/CV charging characteristic
- Suitable for active loads and parallel operation
- Integrated decoupling diode
- Continuous no-load and short-circuit proof
- EMI filter at input and output
- No power derating within the specified temperature range
- Low input ripple and noise
- Wide input voltage range

STANDARDS & COMPLIANCE

REACH

RoHS

CE

IEC 60068-2-6:2007 TYPE-TESTED

IEC 60068-2-27:2009 TYPE-TESTED

EN 61000-6-4 TYPE-TESTED

EN 61000-4-4 TYPE-TESTED

EN 61000-4-5 TYPE-TESTED

EN 61000-6-2 TYPE-TESTED

EN 61000-4-6 TYPE-TESTED

EN 61000-4-2 TYPE-TESTED

EN 55022 < Class A TYPE-TESTED

EN 61000-4-3 TYPE-TESTED

