

# PV Disconnect 400-50-1-S

Connection Box with DC Disconnect Switch and Surge Protection Device

## Description

The LORENTZ PV Disconnect 400-50-1-S is a PV connection box with an integrated DC disconnect switch and equipped with a Surge Protection Device (SPD), for use with LORENTZ PS2 pump systems.

The SPD will provide an increased level of protection from electrical surges (for example caused by indirect lightning strikes). For operation it requires a reliable ground connection.

The product can connect one (1) string of PV Modules through the enclosed DC disconnect switch safely to a solar pump system.

Designed to be installed between the solar generator and the controller meeting the electrical requirements of the connected devices.



Photo may differ from actual product

## Technical Data

<b>Product name</b>	PV Disconnect 400-50-1-S
<b>Built-in protection</b>	Surge protection device (SPD)
<b>Ambient temperature</b>	-30 °C to 50 °C [-22 °F to 120 °F]
<b>Max. Voltage</b>	400 V DC
<b>Max. current per string</b>	50 A
<b>Max. total current</b>	50 A
<b>Max. no. of strings</b>	1
<b>Input cable size</b>	2.5 – 4 mm <sup>2</sup> / AWG 14 - 12
<b>Output cable size</b>	4–10 mm <sup>2</sup> / AWG 12 - 8
<b>Ground cable size</b>	≥ 6 mm <sup>2</sup> / AWG 10
<b>PG glands (input)</b>	2 x M16
<b>PG glands (output)</b>	2 x PG-11
<b>PG gland GND</b>	1 x M16
<b>Enclosure class</b>	IP 68
<b>Housing material</b>	Polycarbonate
<b>Approvals and standards</b>	EN 60204-1 / EN 60947-3

## Features

- DC rated disconnect to provide safe isolation of the system
- Built-in Surge Protection Device (SPD)
- Robust weatherproof housing designed to make installation simple
- Lockable to secure the system during maintenance (power locked off)
- Internal touch protection with screws
- Required for a professional installation of solar pumping systems

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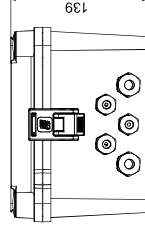
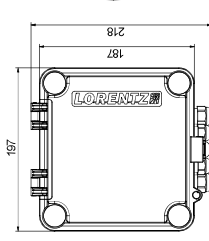
## Compatibility

- For use with LORENTZ PS2 controllers [PS2-150 to PS2-4000].



## Product dimensions and weight

<b>Dimensions [LxWxH]</b>	218 x 139 x 197 mm [8.6 x 5.4 x 7.8 in]
<b>Net Weight</b>	1.7 kg [3.7 lbs]



## Mounting options

- Wall mount using 4 holes with weather protection.
- Designed for optional pole mounting. Mounting points are pre-marked inside the housing.



<b>Mounting hole distances [WxH, Hole diameter]</b>	160 x 150, Ø6 mm [6.3 x 5.9, Ø0.236 in]
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## Order and Packaging information

<b>Item number</b>	19-001950
<b>Product name</b>	PV Disconnect 400-50-1-S
<b>Packed gross weight</b>	2.3 kg [5.0 lbs]
<b>Packed volume</b>	0.0125 m <sup>3</sup> [0.44 ft <sup>3</sup> ]
<b>Packaging dimensions [LxWxH]</b>	250 x 250 x 200 mm [9.8 x 9.8 x 7.8 in]

