

Workplace Distribution Unit for a Tidy Desk





Workplace Distribution Unit

for a Tidy Desk

Description

The **Workplace Distribution Unit** by **Fraunhofer IISB** provides an innovative solution for supplying office equipment on desks from a uniform socket. It eliminates the numerous AC line adapters necessary today.

Each appliance is powered with its individually necessary supply voltage via a POL DC/DC converter in the distribution unit. The voltage coding is done via a resistor in the equipment-specific supply cable. Each channel features comprehensive protection functions and zero standby power consumption.

The distribution unit can be directly powered from a Safety Extra Low Voltage (SELV) DC grid or from a 380 V LVDC grid via an isolating DC/DC-converter, mounted e.g. in a floor socket.

Basically there is no limitation in the number of output channels. The standard office desk distribution unit provides three channels each with a current of 4.5 A (i.e. 100 W @24 V).

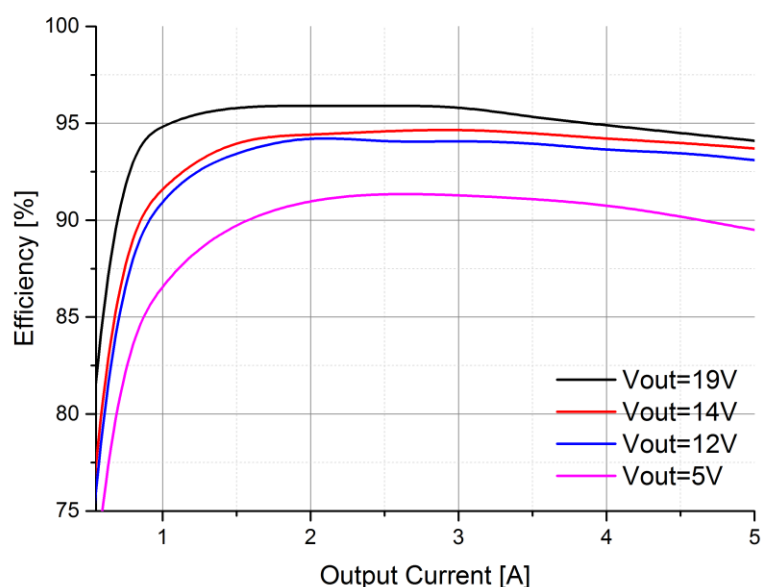
Technical Data

Number of channels	3
Output voltage range	5 V – 22 V
Maximum output power per channel	100 W
Input voltage	24 V
Efficiency per channel	up to 96%
Dimensions	198 mm x 85 mm x 88 mm

Features

- Output voltage individually programmable for each socket by a resistor mounted inside the cable-connector
- Compatible with existing office equipment
- Automatic shutdown of an output channel if no load is connected
- Redundant over temperature protection
- Overcurrent protection
- Directly accessible from the desk

Efficiency for various output voltages



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