



USB-C/A SOCKET DATASHEET

dc.systems

Current  DS



by **Schneider** Electric

About

This combined USB-C / USB-A socket is a unique solution of DC Systems BV. Current OS compatible, it is powered on 350V DC grid and combines electricity with communication thanks to Power Delivery (PD) Protocol.

Applications

- Office
- Home

Features

- Wall enclosure.
- Fully isolated from the DC grid.
- >91% efficiency.
- USB-C socket up to 20V 5A (100W).
- Full USB-PD power protocol. (5V, 9V, 15V, 20V)
- Fast output disconnect switch against short circuit.
- USB-A socket 5V 1.5A.
- 350V DC input voltage.
- Current/OS 350V compatible.
- Compatible with Current Routers as protection device.
- Internal power supply
- Standard wall mount socket format

USB-C/A 100W

Logistical data

Specification item	Value
Product reference	DCN-20V-5A-1P-350V-OUSB1

Absolute limit values

Specification item	Value	Unit
Input voltage	540	Vdc

Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	350	V dc	
Maximal input voltage	380	V dc	Nominal working
Minimal input voltage	320	V dc	Nominal working
Maximal input current	0.32	A dc	
Max input power	104	W	@150W output
Efficiency	91.5	%	100% output
Standby power	0.5	W	

Electrical output data

Specification item	Value	Unit
USB-C		
Max output voltage	20	V dc
Max output current	5	A dc
Efficiency	> 91	%
USB-A		
Max output voltage	5.5	V dc
Max output current	1.5	A dc
Efficiency	75	%

Electrical connections

Specification item	Value	Unit
Incoming cable min. cross section	1	mm ²
Incoming cable max. cross section	2.5	mm ²

Physical Data

Specification item	Value	Unit
Height	175	mm
Width	80	mm
Depth	40	mm
Weight	200	grams
IP rating enclosure	IP43	

Environmental Conditions

Specification item	Value	Unit	Condition
Max ambient temperature	35	°C	Standby
Max ambient temperature 100%	35	°C	Full power w/o derating
Min ambient temperature	-20	°C	Standby
Case temperature (T-Life)	75	°C	
Maximal case temperature	85	°C	
Storage temperature	-10...+30	°C	
Humidity operation	90	%	
Humidity storage	80	%	IEC 60068-2-78



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For more information, visit
www.dc.systems/applications/products

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