

TOP PCU DC650 500**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**General ordering data**

Version	
Order No.	2921610000
Type	TOP PCU DC650 500
GTIN (EAN)	4099986615038
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	130 mm	Depth (inches)	5.118 inch
Height	130 mm	Height (inches)	5.118 inch
Width	50 mm	Width (inches)	1.969 inch
Net weight	999 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity at operating temperature	5...95 % rel. humidity, no condensation		

Input

Blackout voltage, max.	400 V	Blackout voltage, min.	0 V
Connection system	PUSH IN	Emergency voltage, max.	600 V
Emergency voltage, min.	400 V	Input fuse (internal)	5 A
Overvoltage error, min.	1,200 V	Overvoltage, max.	1,200 V
Overvoltage, min.	880 V	Rated current	1.5 A
Rated input voltage, max.	750 V	Rated input voltage, min.	600 V
Reverse polarity protection (L+, L- reverse polarity)	100 %	Standby power consumption (pre charge completed)	7 W
Temporary overvoltage for 5 sec, max.	880 V	Temporary overvoltage for 5 sec, min.	800 V
Rated input voltage	650 V		

Output

Connection system	PUSH IN
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Output DC Bus

DC charge current, max.	7.2 A	Maximum capacitive load of DC sector	8.13 mF
Pre charge time, typ.	2 s (max. 4 s)	Rated output voltage (L+PC) corresponds to rated input voltage	Yes
Type of current limiting	Constant current		

Output bypass switch

Maximum current of DC sector	500.5 A	Output voltage (+ 20 %)	24 V
Rated current	1.5 A		

General data

Housing version	Metal, corrosion resistant	Mains buffering time, min.	20 ms
Maximum device capacity, typ.	100 µF	Maximum operating altitude	5,000 m
Mounting position (Regard derating)	Any	Protection circuits	Over temperature protection
Protection degree	IP20	Surge voltage category	II

EMC / shock / vibration

EMC-Test according to	DIN EN IEC 61000-6-4, DIN EN IEC 61000-6-4	Shock resistance IEC 60068-2-27	30 g in all directions
Vibration resistance IEC 60068-2-6	4 g		

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Insulation coordination

Insulation voltage input / earth	6 kV	Insulation voltage output / earth	6 kV
Insulation voltage, input/output	6 kV	Pollution severity	2
Protection class	I, with PE connection	Surge voltage category	II

Electrical safety (applied standards)

DC grid behavior 400 ... 880 V DC according to	System concept DC Industry V3	Electrical safety	EN/IEC/UL 61010-1, EN/IEC/UL 61010-2-201
Safety extra-low voltage	EN/IEC/UL 61010 for PELV and SELV		

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	4 AWG	Conductor cross-section, AWG/kcmil , min.	18 AWG
Conductor cross-section, flexible , min.	0.5 mm ²	Conductor cross-section, rigid , max.	16 mm ²
Conductor cross-section, rigid , min.	0.5 mm ²	Connection system	PUSH IN
Screwdriver blade	0.8 x 4.0	Screwdriver blade (input)	0.8 x 4.0
Wire connection cross section, flexible (input), max.	25 mm ²		

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	4 AWG	Conductor cross-section, AWG/kcmil , min.	18 AWG
Conductor cross-section, flexible , max.	25 mm ²	Conductor cross-section, flexible , min.	0.5 mm ²
Conductor cross-section, rigid , max.	16 mm ²	Conductor cross-section, rigid , min.	0.5 mm ²
Connection system	PUSH IN	Screwdriver blade	0.8 x 4.0
Stripping length (output)	18 mm		

Connection data (signal)

Screwdriver blade (signal)	0.4 x 2.5	Wire connection cross-section, flexible (signal), max.	1.5 mm ²
Wire connection cross-section, flexible (signal), min.	0.2 mm ²	Wire connection method	PUSH IN
Wire cross-section, AWG/kcmil , max.	14	Wire cross-section, AWG/kcmil , min.	24 mm ²
Wire cross-section, solid , max.	1.5 mm ²	Wire cross-section, solid , min.	0.2 mm ²

Classifications

ETIM 7.0	EC002045	ETIM 8.0	EC002045
ETIM 9.0	EC002045	ECLASS 11.0	27-04-07-02
ECLASS 12.0	27-04-07-02	ECLASS 13.0	27-04-07-02
ECLASS 14.0	27-04-07-02		

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant

Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format

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Drawings

