

TOP PCU DC650 40**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Version	
Order No.	2921590000
Type	TOP PCU DC650 40
GTIN (EAN)	4099986615014
Qty.	1 pc(s).

TOP PCU DC650 40

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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
-------------------	---------

Output DC Bus

DC charge current, max.	0.7 A	Maximum capacitive load of DC sector	0.72 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	40.5 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		

TOP PCU DC650 40

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

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

Creation date October 6, 2024 12:13:49 AM CEST

Catalogue status 28.09.2024 / We reserve the right to make technical changes.

TOP PCU DC650 40

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

