

CV-Charger

Single-Port and Dual-Port 2.0 and 3.1 USB Chargers

PRODUCT WEBPAGE

Request sample, Configure part



The single-port and dual-port USB CV-Charger is designed to charge electronic devices compatible with 2.0 or 3.1 USB types. The CV-Charger delivers fast charging times even in extreme temperatures from -40 °C to +85 °C. This innovative product features spring-loaded access doors that automatically close to safeguard its electronics, assuring prolonged safe and reliable operation. The center LED indicates charging is in progress.

4.5A

Fast Charging

9-32V

Operating Voltage

IP64 or IP65

Sealing Protection

Typical Applications

- On/Off-Highway Equipment
- Lawn & Garden Equipment
- Military
- Golf Carts
- Marine

Tech Specs

Physical

USB Type	2.0 for type A (4 pins) 3.1 for type C (16 pins)
Number of USB Ports	1 or 2
Life Cycles	5,000 cycles for USB port 30,000 cycles for door
Mounting Method	Snap
Panel Opening	.83" x 1.45"; 21.08mm x 36.83mm
Panel Thickness	0.76mm to 3.96mm
Connectors	Carling VC2, VC1 housing Two pin connectors
Mating Terminal	Tyco/AMP .25 QC faston series for VC2 housing, Delphi GT 630 series for VC1
Weight	Single-Port: 33 grams [.072 lbs] Dual-Port: 44.45 grams [.097 lbs]
Size	L 47.73 x W 25.9 x H 64.2 mm

Electrical

Operating Voltage	9-32V DC
Max. Output Power	22.5W for SCP protocol for each port, 18W for other protocol for each USB port
Max. Output Current	4.5A
Charging Protocol	BC1.2, Apple, Samsung, Qualcomm QC2.0/QC3.0, MTK PE1.1/2.0, Huawei FCP/SCP, Samsung AFC PD3.0 only for port C
LED Indicator	Green LED brightens when charging is in progress.
Reverse Polarity	ISO 16750-2: 2012 4.7; Apply power supply with -28 V DC for 60s
ESD	ISO 10605: 2008; ±15kV air discharges, ±8kV contact discharges
Electrical Endurance	5000 cycles USB plug push in pull out with charging
Over Voltage	ISO 16750-2: 2012 4.3; Power up with 36V DC for 60 min at 65 °C
Withstand Voltage	ISO 16750-2: 2012 4.11; Apply 500VRMS with a duration of 60s
Insulation Resistance	ISO 16750-2: 2012 4.12; Measure with 500V DC for 60s, resistance value >10MΩ
Radiated Immunity-ALSE	ISO 11452-2: 2004; Absorbed-lined chamber enclosure field strength 30V/m, frequency 400MHz~2000MHz
Bulk Current Injection	ISO 11452-4: 2011; Level 60mA, frequency from 0.5MHz to 400MHz, Probe position 150mm/450mm/750mm
Conducted Transients	ISO 7637-2: 2004; All test pulse in Annex A Table A1 and A2, 2a/3a/3b/4

Environmental

Sealing Protection (when doors closed)	IEC 60529: 2013; IP64 or IP65 (Optional), for above-panel components of the actual switch only
Operating Temperature	- 40 °C to + 85 °C
Storage Temperature	ISO 16750-4: 2010; - 50 °C to + 95 °C
Thermal, Hot Soak	IEC 60068-2-2: 2007; Test Bb, +85 °C for 24 hours
Thermal, Cold Soak	IEC 60068-2-1: 2007; Test Ab, -40 °C for 24 hours
Thermal Shock	IEC 60068-2-14: 2009; Test Na -40 °C to +85 °C, soak for 1hrs at each extreme and transfer within 3min, repeat 10 cycles
Thermal Cycling	IEC 60068-2-14: 2009; Test Nb, -40 °C to 85 °C, dwell for 2h at each extremes with transfer rate 3 °C/min, 2 cycles
Humidity, Soak	IEC 60068-2-78: 2012; Test Cab, +40 °C at 93±3% RH for 4 days
Damp Heat Cyclic	IEC 60068-2-30: 2005; Test Db Method 1, 25 °C to 55 °C cycling change with 93± 3% RH for 6 cycles, totally 144h
Salt Spray	IEC 60068-2-11:1981; Salt mist with 35°C, totally 48h
Chemical Resistance (Resistance to Solvents)	ISO 16750-5: 2010; Brushing engine oil, hydraulic oil, diesel fuel, urea at 85°C for 22hrs. Dipping battery fluid for 22hrs and alcohol for 10min at 25°C
Vibration, Random	IEC 60068-2-64: 2008; Range: 10~2000Hz. Acceleration 57.088m/s2 (RMS), Duration 8h per axial
Vibration, Resonance	IEC 60068-2-6: 2007; Sweep 10Hz~500Hz per axis with amplitude 0.5mm (10~50Hz) and 19.6m/s2 (50~500Hz). Apply 100 m/s2 at resonance point for 1h
Vibration, Sinusoidal	IEC 60068-2-6: 2007; Sweep 10Hz~500Hz with amplitude 0.75mm (10~58.1Hz), 100m/s2 (58.1~200Hz) for 4h at Z axis and 2h at X/Y axis
Mechanical Shock	IEC 60068-2-27: 2008; Acceleration: 500m/s2, dwell 11ms. 3 pulse per axial, Total 18 times
Mechanical Bump	IEC 60068-2-27: 2009; Acceleration: 400m/s2, dwell 6ms. 100 pulse per axial, total 600 times
Drop test	IEC 60068-2-31: 2008; Test Ec Free Fall -Procedure 1 drop in each direction of the 3 axis (6 total drops) from 1000mm

Agency Certifications

CE Mark	2014/30/EU EN 50498:2010
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Ordering Scheme

Sample Part Number **CHG - A 2 A - 001**

Selection 1 2 3 4 5 6

1. SERIES

CHG CV-Charger

2. POWER

A 18W

3. PORT TYPE

- 1 Single-Port: A (2.0 USB)
- 2 Single-Port: C (3.1 USB)
- 3 Dual-Port: Port A (2.0 USB) + Port C (3.1 USB)
- 4 Dual-Port: Port A (2.0 USB) + Port A (2.0 USB)
- 5 Dual-Port: Port C (3.1 USB) + Port C (3.1 USB)

4. INDICATOR LIGHT COLOR

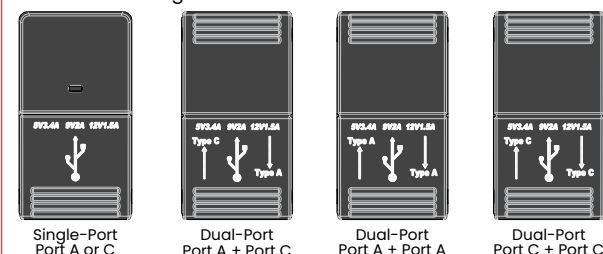
A Green

5. SEALING

	Sealing	Gasket
BLANK	IP64	No
1	IP65	No
2	IP64	Yes
3	IP65	Yes

6. LEGEND

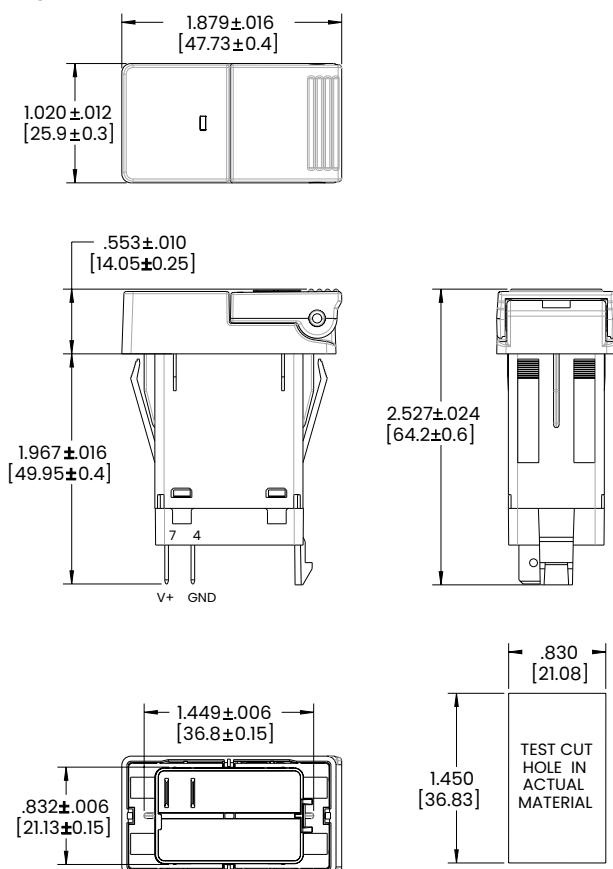
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- 001** Standard Legend



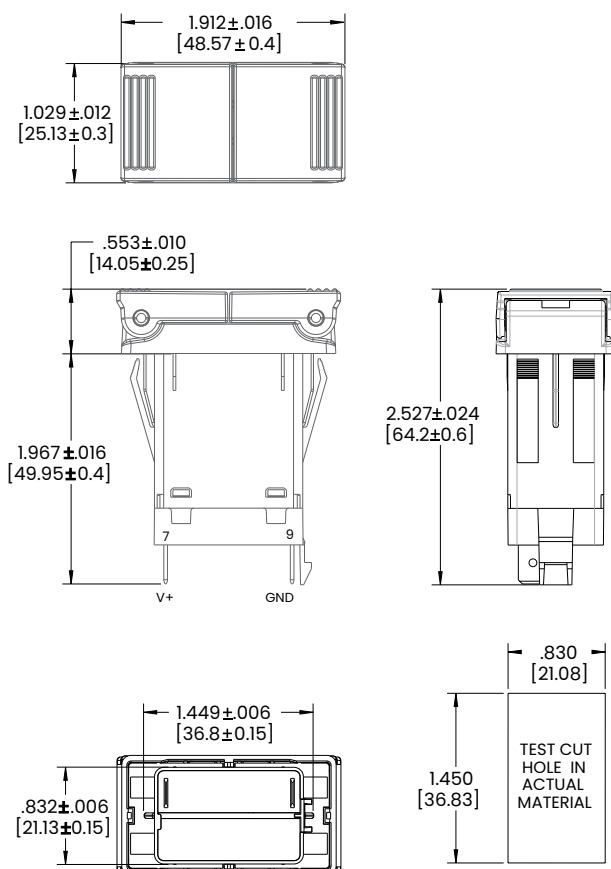
Dimensional Specs

inches [millimeters]

Single Port



Dual Port



V-Charger

Dual Port USB 2.0 Chargers

PRODUCT WEBPAGE

request sample, configure part, watch video



The USB V-Charger is designed to charge tablets, e-readers, mobile and gaming devices, digital cameras, as well as other compatible electronic devices. The V-Charger delivers fast charging times even in extreme temperatures from -40°C to +80°C. This innovative product safeguards its electronics with integrated over-current and thermal overload protection, as well as optional load dump circuitry, assuring prolonged safe and reliable operation. The center LED indicates charging is in progress.

1	3.15	12-24	IP65 Sealing
Pole	Amps	VDC	Above-Panel

Typical Applications

- On/Off-Highway Equipment
- Lawn & Garden Equipment
- Military
- Golf Carts
- Marine

Design Features

DUAL USB 2.0 PORTS

Total current of 3.15 amps, facilitating faster charges

SPRING LOADED DOORS

Stylish, curved or square double doors automatically close to cover and seal each port when not in use

LED

Green LED brightens to indicate charging is in progress



SEALING PROTECTION

Silicone rubber seal perfectly mates with door indent to provide sealing protection up to IP65 for above-panel components

PANEL SEAL

Prevents water ingress beneath panel to protect critical connections

MOUNTING

Fits industry standard panel opening size of 1.450" x .830"

Tech Specs

Electrical

USB Type	2.0
Number of USB Ports	2
Operating Voltage	12V/24V DC power systems (9 to 29 VDC)
Output Voltage	5.0 VDC
Max Output Current	3.15A DC Total
Current Draw (No Load)	12V: 1.5 mA, 24V: 3.5 mA
Compatibility	Charges mobile devices including iPad, iPhone, iPod, HTC, Galaxy, Blackberry, MP3 Players, Digital Cameras and PDA's
LED Indicator	Green LED brightens when charging is in progress.
Receptacle Insertion Life	10,000 operating cycles per port minimum
Terminals	Copper/silver plating 1/4" (6.3 mm) Quick Connect terminations
Reverse Polarity	Operational with correct polarity after reverse polarity exposure
Output Protection	Short Circuit and Overload
Thermal Overload Protection	Operation will cease if internal temperature reaches 125°C. Charging will resume after sufficient heat loss
ESD	15kV air, 8kV touch per ISO10605 for Operational; Packaging and Handling Tests
Load Dump Protection	ISO 7637-2 detailed data available. Consult factory for details.
Radiated Immunity	ISO 11452-2, 200 MHz to 2.7 GHz Field Strength for 200 MHz to 1 GHz: 60 V/m Field Strength for 1 to 2.7 GHz: 50 V/m Bulk Cable Injection ISO 11452-2, 1 to 400 MHz Field Strength: 80 mA
Emissions	FCC Part 15, Class B Radiated, Conducted and Far Field Emissions data available. Consult factory for details.

Mechanical

Endurance	10,000 open/close cycles minimum per door
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Environmental

Sealing (when doors closed)	Curved Doors: IP65, for above-panel components of actual switch only Square Doors: IP64, for above-panel components of actual switch only
Operating Temperature	-40° to +60°C at 3.15A -40° to +70°C at 2.4A -40° to +80°C at 2.1A
Vibration	MIL-STD 202G, Method 204D, Test Condition A. 0.06DA or 10G, 10-500 Hz
Shock	MIL-STD 202G, Method 213B, Test Condition K @ 30-G. No loss of circuit during test.
Chemical Exposure	Brush method with USB doors closed: diesel, gasoline, brake fluid, Windex, Armor All
Thermal Shock	MIL-STD 202G, Method 107G, Test Condition A, -40° to 85°C. Test Criteria: Remains functional without damage.
Moisture Resistance	MIL-STD 202G, Method 106G. Test Criteria: Remains functional without damage
Thermal Cycling	25 Cycles -40° to 85°C, 2 hours for each temperature every cycle
Salt Spray	MIL-STD 202G, Method 101E, Test Condition A
Blowing Dust	MIL-STD 810G Method 510.5, Air Velocity: 1750 ± 250 ft/min, Test Duration: 12 hours

Physical

Materials	Housing: Polycarbonate/PBT Doors: Polyester Light Pipe: Polycarbonate Torsion Springs Pins: Stainless Steel Door Seal: Silicone PCBA Gasket/Panel Gasket: Closed Cell Neoprene Terminals: Silver plated Copper Electronics: Two PCB Assemblies
Panel Opening	1.450" x .830"
Panel Thickness	.030 - .156 inches
Panel Mounting Method	Front Panel Insertion
Installation Insertion Force	12-28 lbs typical (dependent on panel design)
Panel Retention Force	Greater than 35 lbs (dependent on panel design)
Depth Behind Panel	See Dimensional Specs
Connectors	VC1, VC2
Weight	Approximately 45g (1.6 oz)
Styling Options	Curved or square USB port doors
Port Protection	Twin, self-closing doors

Ordering Scheme

Sample Part Number V - USB - 24 - G 1 1 - 1 B B 1

Selection 1 2 3 4 5 6 7 8 9 10

1. SERIES

V

2. PRODUCT TYPE

USB Charger

3. SOURCE VOLTAGE

24 24 / 12 Volts DC

4. LED INDICATOR (VOLTAGE MATCHES SOURCE)

G Green 0 Stealth (no LED)

5. CIRCUIT PROTECTION

- 1 Reverse Polarity, Thermal Overload & Overcurrent
- 2 Load Dump, Reverse Polarity, Thermal Overload & Overcurrent

6. TERMINATION

1 .250 Tab

7. DOOR STYLE

1 Curved 2 Square

8. DOOR COLOR

B Black

9. FRAME COLOR

B Black

10. PANEL SEAL

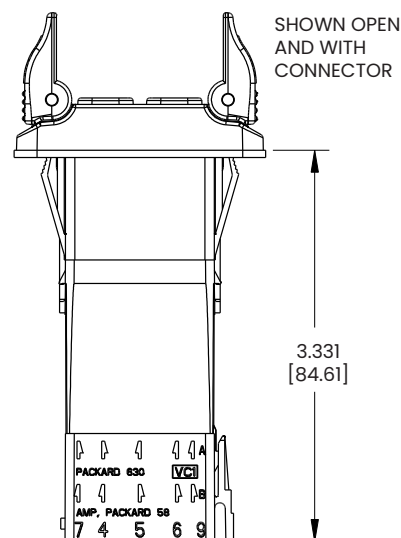
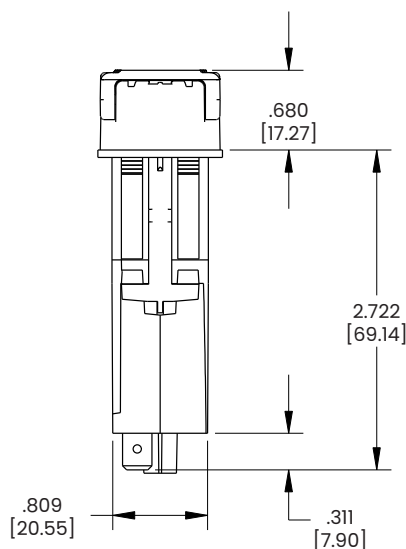
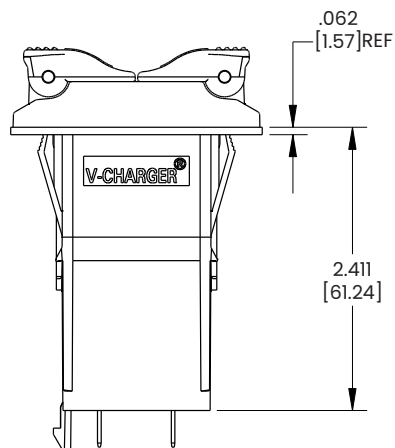
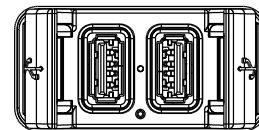
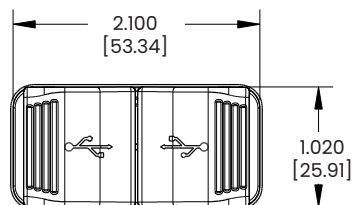
1 Yes

[Configure Complete Part Number >](#)

Dimensional Specs

inches [millimeters]

Curved Door Style Option



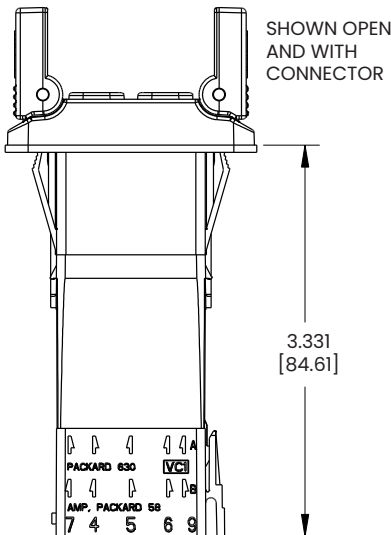
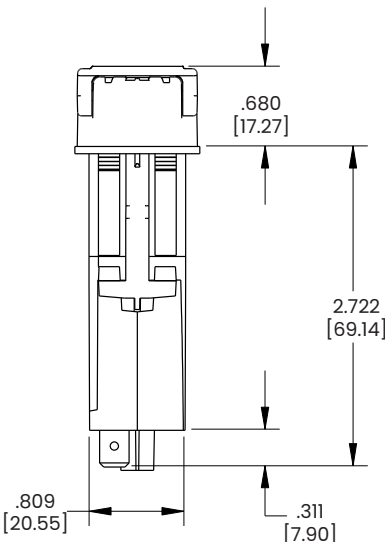
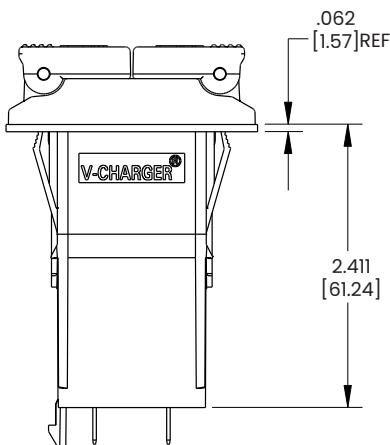
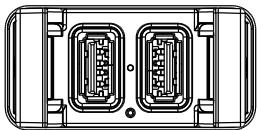
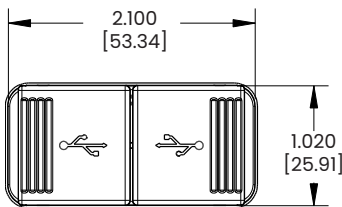
Notes:
1 Charger to install into 1.450" X 0.830" panel opening

COS-0136 Rev: B, CLA-0075 Rev: C
*Manufacturer reserves the right to change product specification without prior notice.

Dimensional Specs

inches [millimeters]

Square Door Style Option



Notes:

- 1 Charger to install into 1.450" X 0.830" panel opening



E1

Power Double USB-C/A Socket

12-24 V DC, output 5 V DC, 3.6 A with integrated power voltage converter and blue LED. For charging and operating electronic devices, that can be charged via 5 V USB.

Mounting hole Ø 28 mm, with mounting plate Ø 36 mm.

Fastening with hexagon nut (and enclosed screws). Panel thickness 2-16 mm.

Input 8-34 V DC, E1 approval, current consumption ≤ 1 mA.

Overload protection, overtemperature protection, reverse polarity protection, short-circuit protection, overvoltage protection at short voltage peaks.

Cable connection pre-assembled, approx. 15 cm, 0.5 mm².

Dimensions mounting plate L x W x H: 60 x 45 x 2.2 mm.

	BP	SP
max.	SU = 100	SU = 60
3.6 A	67341000	67341500
3.6 A, with mounting plate	67342000	67342500



E1

Power Double USB Socket

12-24 V DC, output 5 V DC, 5 A with integrated voltage converter.

For charging and operating electronic devices, that can be charged via 5 V USB.

Mounting hole Ø 28 mm, with mounting plate Ø 36 mm.

Fastening with hexagon nut (and enclosed screws). Panel thickness 2-16 mm.

Input 8-34 V DC, E1 approval, current consumption ≤ 3 mA.

Overload protection, overtemperature protection, reverse polarity protection.

Cable connection pre-assembled, approx. 15 cm, 0.5 mm².

Dimensions of mounting plate L x W x H: 60 x 45 x 2.2 mm.

	BP	SP
max.	SU = 100	SU = 60
5 A	67321000	67321500
5 A, with cap	67321100	67321600
5 A, with mounting plate	67322000	67322500
5 A, with mounting plate and cap	67322100	67322600



E1

Power USB Built-In Socket

12-24 V DC, output 5 V DC, 3 A with integrated voltage converter.

For charging and operating electronic devices, that can be charged via 5 V USB.

Mounting hole Ø 28 mm, with mounting plate Ø 36 mm.

Fastening with hexagon nut (and enclosed screws). Panel thickness 2-16 mm.

Input 8-34 V DC, E1 approval, current consumption ≤ 3 mA.

Overload protection, overtemperature protection, reverse polarity protection.

Cable connection pre-assembled, approx. 15 cm, 0.5 mm².

Dimensions of mounting plate L x W x H: 60 x 45 x 2.2 mm.

	BP	SP
max.	SU = 100	SU = 60
3 A	67331000	67331500
3 A, with cap	67331100	67331600
3 A, with mounting plate	67332000	67332500
3 A, with mounting plate and cap	67332100	67332600





Power USB-C Built-In Socket PD/QC 60 Watt

12-24 V DC. Perfect for fast and mobile charging of the latest generation of tablets, notebooks, and smartphones. Features an integrated voltage converter and step-up transformer: With an input voltage of 12 volts, compatible devices can be charged with an output voltage of 5-20 volts and up to 60 watts of power. Supports fast charging protocols such as Power Delivery, Quick Charge, PPS, and others.

Input: 8-30 V DC

Output (1x Port C): 5-20 V DC, max. 3 A / 60

E1 -approved; Current consumption: < 5 mA

Protection against: overload, overheating, overvoltage, reverse polarity, and short circuits. Installation details:

Drill hole diameter: Ø 28 mm; panel thickness: 2-16 mm; secured with a hexagon nut; preassembled cable: approx. 15 cm, 2 x 0.5 mm².

	BP	SP
	SU = 100	SU = 60
1x USB-C	67351050	67351550



Power USB-C Built-In Socket PD/QC 60 Watt with mounting plate

12-24 V DC. Perfect for fast and mobile charging of the latest generation of tablets, notebooks, and smartphones. Features an integrated voltage converter and step-up transformer: With an input voltage of 12 volts, compatible devices can be charged with an output voltage of 5-20 volts and up to 60 watts of power. Supports fast charging protocols such as Power Delivery, Quick Charge, PPS, and others.

Input: 8-30 V DC

Output (1x Port C): 5-20 V DC, max. 3 A / 60 W

E1-approved; Current consumption: < 5 mA

Protection against: overload, overheating, overvoltage, reverse polarity, and short circuits.

Installation details: Drill hole diameter: Ø 36 mm; panel thickness: any; secured with a hexagon nut and screws; preassembled cable: approx. 15 cm, 2 x 0.5 mm².

	BP	SP
	SU = 100	SU = 60
1x USB-C	67352050	67352550



Bendable USB-C Charging Plug PD/QC 60 Watt

12-24 V DC. Perfect for fast and mobile charging of the latest generation of tablets, notebooks, and smartphones. Features an integrated voltage converter and step-up transformer: With an input voltage of 12 volts, compatible devices can be charged with an output voltage of 5-20 volts and up to 60 watts of power. Supports fast charging methods such as Power Delivery, Quick Charge, PPS, and others.

Input: 8-30 V DC / Output (1x Port C): 5-20 V DC,

max. 3 A / 60 W; E1-approved; current consumption: < 5 mA. Protection against: overload, overheating, overvoltage and short circuits. Connecting via universal plug, fitting for cigarette lighter / power sockets (Ø 21 mm) and standard sockets (Ø 12 mm). With blue LED that shows voltage supply.

	BP	SP
	SU = 100	SU = 60
1x USB-C	67302300	67302700



Power Double USB Surface-Mounted Socket PD/QC

12-24 V DC with integrated voltage converter.

Supports fast charging methods such as Power Delivery and Quick Charge and PPS. Output 5 V, 9 V, 12 V and at 24 V input also 15 V and 20 Volt. Output USB-C: up to max. 3 A (30 W), Output USB-A: up to max. 2.2 A (24 W), current consumption < 5 mA

Protection against: reverse polarity, overload, over temperature, overvoltage, short-circuit; E1-approval. fastening by screws, cable connection pre-assembled approx.

15 cm, 2 x 0.5 mm². Dimensions: L x W x H: 43 x 45 x 27 mm.

	BP	SP
	SU = 100	SU = 60
USB-C/A	67359000	67359500
2x USB-C	67379000	67379500



Power USB-C Built-In Socket PD/QC

12-24 V DC with integrated voltage converter. Supports fast charging methods as Power Delivery and Quick Charge. With or without blue LED that shows voltage. Output 1x Port C: 5 V, 9 V, 12 V and with 24 V input voltage also 15 V and 20 V. Max. 3 A (30 W). Protection against reverse polarity, overvoltage, short-circuit, overtemperature, overload. E1-approval, current consumption < 5 mA. Mounting hole Ø 28 mm (Ø 36 mm with mounting plate), panel 2-16 mm; fastening by hexagon nut; cable connection pre-assembled approx. 15 cm, 2 x 0,5 mm².

	BP SU = 100	SP SU = 60
with LED	67361000	67361500
without LED	67361050	67361550
with mounting plate, with LED	67362000	67362500
with mounting plate, without LED	67362050	67362550



Power Double USB-C Socket PD/QC

12-24 V DC with integrated voltage converter. Supports fast charging methods as Power Delivery and Quick Charge. With or without blue LED that shows voltage. Output 2x Port C: 5 V, 9 V, 12 V and with 24 V input voltage also 15 V and 20 V. Max. 2x 3 A (2x 30 W). Protection against reverse polarity, overvoltage, short-circuit, overtemperature, overload. E1-approval, current consumption < 5 mA. Mounting hole Ø 28 mm (Ø 36 mm with mounting plate), panel 2-16 mm; fastening by hexagon nut; cable connection pre-assembled approx. 15cm, 2 x 0,5 mm².

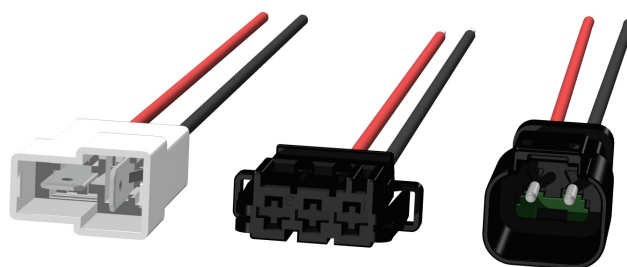
	BP SU = 100	SP SU = 60
with LED	67371000	67371500
without LED	67371050	67371550
with mounting plate, with LED	67372000	67372500
with mounting plate, without LED	67372050	67372550



Power Double USB-C/A Socket PD/QC

12-24 V DC with integrated voltage converter. Supports fast charging methods as Power Delivery (Port C) and Quick Charge (Port A+C). Output 5 V, 9 V, 12 V and with 24 V input voltage also 15 V and 20 V USB-C port up to 3 A (30 watts), USB-A port up to 2.2 A (24 watts). Protection against reverse polarity, overvoltage, short-circuit, overtemperature, overload; E1-approval, current consumption < 5 mA. Mounting hole Ø 28 mm (Ø 36 mm with mounting plate), panel 2-16 mm; fastening by hexagon nut; cable connection pre-assembled approx. 15 cm, 2 x 0.5 mm²

	BP SU = 100	SP SU = 60
with LED	67353000	67353500
without LED	67353050	67353550
without LED, with mounting plate	67353060	67353560



Plugs for assembly with PRO CAR USB sockets

PRO CAR USB sockets can be factory fitted with a plug.
The following options are available:

1. TE plug 180908 2-pin, 6.3 mm T flat plug connection
2. TE plug housing 1-0968976-9 / contacts 1-0968849-1
3. TE / Deutsch plug DT04-2P-CE03 / contacts 0460-202-16141

Cable: approx. 15 cm, 2x 0.5 mm²
The corresponding connector must be provided by the customer.
Please contact us!



Power Double USB-C/A Surface Mounted Socket

12-24 V DC, output 5 V DC, 3.6 A with integrated voltage converter and blue LED. For charging and operating electronic devices, that can be charged via 5 volt USB.

Fastening with enclosed screws.

Cable connection pre-assembled, approx. 15 cm, 0.5 mm².

Input 8-34 V DC, E1 approval, current consumption ≤ 1 mA.

Overload protection, overtemperature protection, reverse polarity protection, short-circuit protection, overvoltage protection at short voltage peaks.

Dimensions L x W x H: 85 x 35 x 33 mm.

	BP	SP
max.	SU = 100	SU = 60
3.6 A	67343000	67343500



Power USB Surface Mounted Socket

1 Power USB Socket 12-24 V DC, output 5 V DC with integrated voltage converter. For charging and operating electronic devices, that can be charged via 5 V USB.

Pre-assembled cable connection, approx. 15 cm, 0.5 mm².

Input 8-34 V DC, E1 approval, current consumption ≤ 3 mA.

Overload protection, overtemperature protection, reverse polarity protection.

Fastening with enclosed screws.

Dimensions L x W x H: 85 x 35 x 33 mm.

	BP	SP
max.	SU = 100	SU = 60
5 A, with double USB socket	67323000	67323500
3 A, with single USB socket	67333000	67333500



Surface Mounted Triple Socket with 1 power double USB-C/A socket and 2 power sockets

1 Power Double USB-C/A socket, 12-24 V DC, output 5 V DC, 3.6 A with integrated voltage converter and blue LED. For charging and operating electronic devices, that can be charged via 5 V USB.

Input 8-34 V DC, E1 approval, current consumption ≤ 1 mA.

Overload protection, overtemperature protection, reverse polarity protection, short-circuit protection, overvoltage protection at short voltage peaks.

2 power sockets 12-24 volt, inner-Ø 21 mm, fitting for universal plugs.

Max. load 20 A based on a supply cable cross-section of 2.5 mm², max. load 16 A based on a supply cable cross-section of 1.5 mm².

Fastening with enclosed screws. Pre-assembled cable connection.

Dimensions L x W x H: 85 x 95 x 33 mm

	BP	SP
USB max. output	SU = 100	SU = 20
3.6 A	67344000	67344500



Surface Mounted Triple Socket with 1 power USB socket and 2 power sockets

1 Power USB Socket 12-24 V DC, output 5 V DC with integrated voltage converter. For charging and operating electronic devices, that can be charged via 5 V USB.

Input 8-34 V DC, E1 approval, own consumption ≤ 3 mA.

Overload protection, overtemperature protection, reverse polarity protection.

2 power sockets 12-24 volt, inner-Ø 21 mm, fitting for universal plugs.

Max. load 20 A based on a supply cable cross-section of 2.5 mm², max. load 16 A based on a supply cable cross-section of 1.5 mm².

Fastening with enclosed screws. Pre-assembled cable connection.

Dimensions L x W x H: 85 x 95 x 33 mm.

	BP	SP
USB max. output	SU = 100	SU = 20
5 A, with double USB socket	67324000	67324500
3 A, with single USB socket	67334000	67334500



Triple Socket with 1 power double USB-C/A socket, 2 power sockets and universal plug

1 Power Double USB-C/A socket, 12-24 V DC, output 5 V DC, 3.6 A with integrated voltage converter and blue LED.
For charging and operating electronic devices, that can be charged via 5 V USB. Input 8-34 V DC, E1 approval, current consumption ≤ 1 mA.
Overload protection, overtemperature protection, reverse polarity protection, short-circuit protection, overvoltage protection at short voltage peaks.

2 power sockets 12-24 volt, inner-Ø 21 mm, fitting for universal plugs.

Max. load 16 A.
Assembled with universal plug 16 A, fitting for cigarette lighter / power sockets (inner-Ø 21 mm) and standard sockets (inner-Ø 12 mm) and with flat cable 2 x 1.5 mm², length 2.0 m.
Dimensions L x W x H: 85 x 95 x 38 mm

	BP	SP
USB max. output	SU = 50	SU = 20
3.6 A	67345000	67345500



Triple Socket with 1 power USB socket, 2 power sockets and universal plug

1 Power USB socket 12-24 V DC, output 5 V DC with integrated voltage converter. For charging and operating electronic devices, that can be charged via 5 V USB. Input 8-34 V DC, E1 approval, own consumption ≤ 3 mA.
Overload protection, overtemperature protection, reverse polarity protection.

2 power sockets 12-24 volt, inner-Ø 21 mm, fitting for universal plugs.

Max. load 16 A.
Assembled with universal plug 16 A, fitting for cigarette lighter / power sockets (inner-Ø 21 mm) and standard sockets (inner-Ø 12 mm) and with flat cable 2 x 1.5 mm², length 2.0 m.
Dimensions L x W x H: 85 x 95 x 38 mm

	BP	SP
USB max. output	SU = 50	SU = 20
5 A, with double USB socket	67325000	67325500
3 A, with single USB socket	67335000	67335500



E1

Flat Power USB Socket

12-24 V DC, output 5 V DC, 3 A with integrated voltage converter.
For charging and operating electronic devices, that can be charged via 5 V USB.
Fastening with enclosed screws, pre-assembled cable connection, length approx. 1.0 m, 2 x 0.5 mm².
Input 8-34 V DC, E1 approval, current consumption ≤ 3 mA, overload protection, overtemperature protection, reverse polarity protection.
Dimensions L x W x H: 34 x 42 x 15.25 mm

	BP	SP
max.	SU = 100	SU = 60
3 A	67339000	67339500



E1

Bendable Double USB Charging Plug with LED

With integrated voltage converter. Output 5 V DC. For charging and operating electronic devices, that can be charged via 5 V USB.
Connecting via universal plug, fitting for cigarette lighter / power sockets (inner-Ø 21 mm) and standard sockets (inner-Ø 12 mm), E1 approval.
Overload protection, reverse polarity protection, overtemperature protection.

12 V USB-C/A: max. 3.6 A output current, current consumption ≤ 1 mA, with blue LED (*1), short-circuit protection, overvoltage protection at short voltage peaks.

12-24 V Double USB-A: max. 5 A output current, current consumption ≤ 3 mA, with green LED (*2)

	BP	SP
max.	SU = 100	SU = 60
3.6 A, with double USB-C/A socket (*1)	67302600	67302800
5 A, with double USB-A socket (*2)	67302100	67302500



USB-C Car Charging Cable

12-24 V DC, output 5 V DC, 3 A, for charging and operating electronic devices, that can be charged via 5 volt with USB-C connection. With integrated voltage converter. Input 8-34 V DC, current consumption ≤ 3 mA. Overload protection, reverse polarity protection, overtemperature protection. Assembled with 180° bendable universal plug, fitting for cigarette lighter / power sockets (inner-Ø 21 mm) and standard sockets (inner-Ø 12 mm) and with cable, length approx. 1.8 m.

	BP	SP
max.	SU = 100	SU = 60
3 A	67303010	67303110



Micro / Mini USB Car Charging Cable

12-24 V DC, output 5 V DC, 3 A, for charging and operating electronic devices, that can be charged with 5 volt via micro or mini USB connection. With integrated voltage converter. Input 8-34 V DC, current consumption ≤ 3 mA. Overload protection, reverse polarity protection, overtemperature protection. Assembled with 180° bendable universal plug, fitting for cigarette lighter / power sockets (inner-Ø 21 mm) and standard sockets (inner-Ø 12 mm) and with cable, length approx. 1.8 m.

	BP	SP
max.	SU = 100	SU = 60
3 A, micro USB plug	67303020	67303120
3 A, mini USB plug	67303030	67303130



Charging Cable with USB-C plug IP 67

12-24 V DC, output 5 V, 3 A, waterproof to IP 67, for charging and operating electronic devices, that can be charged with 5 volt via USB-C connection. With integrated voltage converter. Input 8-34 V DC, current consumption ≤ 3 mA. Overload protection, reverse polarity protection, overtemperature protection. Cable length 1.8 m, tinned wire ends.

	BP	SP
max.	SU = 100	SU = 60
3 A	68302560	68302660



Charging Cable with micro / mini USB plug IP 67

12-24 V DC, output 5 V DC, 3 A, waterproof to IP 67, for charging and operating electronic devices, that can be charged with 5 volt via micro or mini USB connection. With integrated voltage converter. Input 8-34 V DC, current consumption ≤ 3 mA. Overload protection, reverse polarity protection, overtemperature protection. Cable length 1.8 m, tinned wire ends.

	BP	SP
max.	SU = 100	SU = 60
3 A, micro USB plug	68302570	68302670
3 A, mini USB plug	68302580	68302680



Charging Cable USB-C

USB 2.0 cable with plugs for USB-C to USB-C. For charging and operating electronic devices that have a USB-C socket. High-quality, flexible cable braided with cotton. Output 5 V / 3 A. Cable length 1m

	BP	SP
	SU = 100	SU = 60
USB-C / USB-C	52009000	52009002



Built-In Socket including 3 Power sockets

12-24 V, inner-Ø of sockets 21 mm, fitting for universal plugs.
Max. load 20 A based on a supply cable cross-section of 2.5 mm²,
max. load 16 A based on a supply cable cross-section of 1.5 mm².
Fastening with enclosed screws. Pre-assembled cable connection.

Dimensions L x W x H: 144 x 56 x 7 mm. Installation depth: 55 mm.

	BP	SP
	SU = 100	SU = 20
12-24 V	67602000	67612000



Built-In Socket including 1 power USB socket and 2 power sockets

USB socket 12-24 V DC, output 5 V DC with integrated voltage converter.
Input 8-34 V DC, E1 approval, overload protection, reverse polarity protection,
overtemperature protection.

Current consumption ≤ 1.0 mA (USB-C/A), ≤ 3 mA (double USB).

USB-C/A including short-circuit protection, overvoltage protection at short
voltage peaks.

2 power sockets 12-24 V, inner-Ø of sockets 21 mm, fitting for universal plugs.

Max. load 20 A based on a supply cable cross-section of 2.5 mm²,
max. load 16 A based on a supply cable cross-section of 1.5 mm².
Fastening with enclosed screws.

Pre-assembled cable connection.

Dimensions L x W x H: 144 x 56 x 7 mm. Installation depth: 55 mm.

	BP	SP
	SU = 100	SU = 20
USB max. output		
3.6 A , with 1 double USB-C/A socket with blue LED	67346000	67346500
5 A , with 1 double USB-A socket	67326000	67326500



Built-In Socket including 1 power USB socket, switchable and 1 power socket

USB socket 12-24 V DC / 5 V DC with integrated voltage transformer.
Switchable via on/off switch, input 8-34 V DC, E1 approval, overload protection,
reverse polarity protection, overtemperature protection.

Current consumption ≤ 1.0 mA (USB-C/A), ≤ 3 mA (USB).

USB-C/A including short-circuit protection, overvoltage protection at short
voltage peaks.

1 power socket 12-24 V, inner-Ø of socket 21 mm, fitting for universal plugs.

Max. load 20 A based on a supply cable cross-section of 2.5 mm²,
max. load 16 A based on a supply cable cross-section of 1.5 mm².
Fastening with enclosed screws.

Pre-assembled cable connection.

Dimensions L x W x H: 144 x 56 x 7 mm. Installation depth: 55 mm.

	BP	SP
	SU = 100	SU = 20
USB max. output		
3.6 A , with 1 double USB-C/A socket with blue LED	67346010	67346510
5 A , with 1 double USB-A socket	67326010	67326510
3 A , with 1 single USB-A socket	67336010	67336510



Triple Frame

With three installation slots each Ø 28 mm, for PRO CAR power sockets and
PRO CAR USB sockets.

Fastening with enclosed screws.

Dimensions L x W x H: 144 x 56 x 7 mm.

	BP	SP
	SU = 100	SU = 20
	67602050	67602550