

CV-Charger

Single-Port 2.0 and 3.1 USB Charger

PRODUCT WEBPAGE

Request sample, Configure part





The 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 a spring-loaded access door that automatically closes to safeguard its electronics, assuring prolonged safe and reliable operation. The center LED indicates charging is in progress.

IP64 Sealing 3.6A Fast Charging Operating Voltage For Above-Panel Components

Typical Applications

- On/Off-Highway Equipment
- · Lawn & Garden Equipment
- · Marine

Military





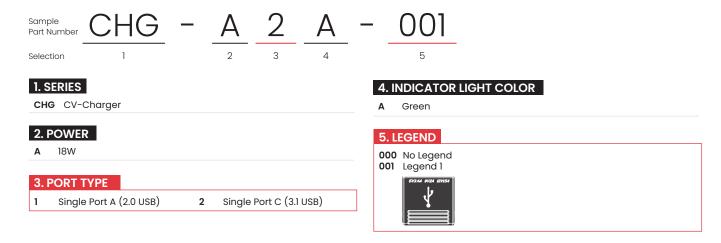


· Golf Carts

Tech Specs

Electrical		Environmenta	
USB Type	2.0 for type A (4 pins) 3.1 for type C (16 pins)	Sealing Protection (when doors closed)	IEC 60529: 2013; IP64, for above-panel components of the actual switch only
Number of USB Ports	1	Operating	- 40 °C to + 85 °C
Operating Voltage	9-32VDC	Temperature	
Max. Output Power	18W for single port A, 18W for single port C	Storage Temperature	ISO 16750-4: 2010; - 50 °C to + 95 °C
Max. Output Current	3.6A	Thermal, Hot Soak	IEC 60068-2-2: 2007; Test Bb, +85 °C for 24 hours
Charging Protocol	BC1.2, Apple, Samsung, Qualcomm QC2.0/QC3.0, MTK PE1.1/2.0, Huawei FCP/SCP, Samsung AFC for single port A.	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
LED Indicator	Green LED brightens when charging is in progress.		
Reverse Polarity	ISO 16750-2: 2012 4.7; Apply power supply with -28 VDC for 60s	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
ESD	ISO 10605: 2008; ±15kV air discharges, ±8kV contact discharges		
Electrical Endurance	5000 cycles USB plug push in pull out with charging	Humidity, Soak	IEC 60068-2-78: 2012; Test Cab, +40 °C at 93±3% RH for 4 days
Over Voltage	ISO 16750-2: 2012 4.3; Power up with 36VDC for 60 min at 65 °C	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,
Withstand Voltage	ISO 16750-2: 2012 4.11; Apply 500VRMS with a duration of 60s	Salt Spray	totally 144h IEC 60068-2-11:1981; Salt mist with
Insulation Resistance	ISO 16750-2: 2012 4.12; Measure with 500VDC for 60s, resistance value >10MΩ	Chemical Resistance (Resistance to Solvents)	35°C, totally 48h ISO 16750-5: 2010; Brushing engine oi hydraulic oil, diesel fuel, urea at 85°C for 22hrs. Dipping battery fluid for 22hrs and alcohol for 10min at 25°C
Physical			
Mounting Method	Snap	Vibration, Random	IEC 60068-2-64: 2008; Range:10~2000Hz. Acceleration 57.088m/s2 (RMS), Duration 8h per
Panel Opening	.83" x 1.45"; 21.08mm x 36.83mm		
Panel Thickness	0.76mm to 3.96mm	Vibration, Resonance Vibration, Sinusoidal	axial 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 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
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	196 grams [.43 lbs]		
Size	L47.73 X W25.9 X H64.2mm		
Mechanical		Mechanical Shock	IEC 60068-2-27: 2008; Acceleration: 500m/s2, dwell 11ms. 3 pulse per axic Total 18 times
Life Cycles	5000 cycles for USB port; 30,000 cycles for door	Mechanical Bump	IEC 60068-2-27: 2009; Acceleration: 400m/s2, dwell 6ms. 100 pulse per axial, total 600 times
Agency Certif	ications 2014/30/EU	Drop test	IEC 60068-2-31: 2008; Test Ec Free Fo -Procedure 1 drop in each direction of the 3 axis (6 total drops) from

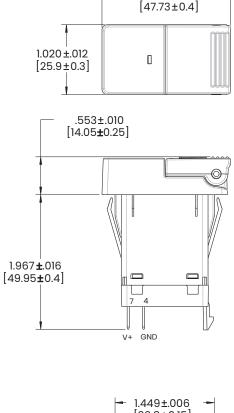
Ordering Scheme

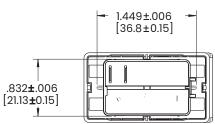


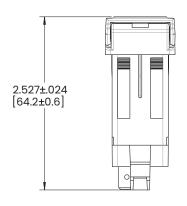
Dimensional Specs

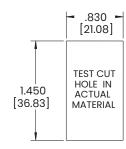
1.879±.016

inches [millimeters]









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