

## Battery charger technical requirements

#	Parameter	Value	Units
1	Application general description		
2	Charger type and configuration (Cells/Batteries)		
3	Input type (DC in, AC in, USB in, Cigarette Lighter)		
4	Charger Packaging (Desktop, Open Frame, Plug-in)		
5	AC input voltage		V
6	Input frequency range		Hz
7	Max DC input voltage (from external power supply)		V
8	Min DC input voltage (from external power supply)		V
9	Max charging power		W
10	Maximum charging power per channel		W
11	Maximum charging voltage		V
12	Trickle charging voltage		V
13	Rechargeable batteries chemistry (Lithium ion polymer, Li-Ion, Lead Acid, Nickel metal, Nickel Cadmium)		
14	Nominal battery voltage		V
15	Max charge current		A
16	Trickle charge current		A
17	Charging method (CV, CC, CP, CCCV, CVCC)		
18	Charge termination (Tapper Current, DT, DT/dt, -DV,DT/dt, ODV, Timer, -DV,DT/dt, TCO Temp, Timer, -DV,DT/dt, Timer, -DV,TCO, -DV/Dt, -DV/Dt, Timer, -DV/Dt,DT/dt, TCO Temp, Timer, -DV/Dt,DT/dt, TCO Temp, Timer, DV/Dt=0, -DV/Dt,DT/dt, TCO Temp, Timer, DV/Dt=0, Vmax and Tmax, -DV/Dt,DT/dt, Timer, DV/Dt=0, Tapper current, Timer, TCO Temp, Timer, Voltage		
19	Adjustable charging output voltage		
20	# of charging channels		
21	# of cells in a series		
22	Main power indication		
23	State of charge indication		
24	State of health indication		
25	Protection alarm		

26	SMBus communication		
27	Refresh option		
28	Waterproof		
29	Wireless charging		
30	Exterior housing (packaging)		
31	Input protections (Short Circuit, Over Temperature, Over Voltage, Under Voltage Shutdown)		
32	Output Protections (Short Circuit, Overload, Reverse Polarity, Over Voltage, Over Temperature, Charge Balancing, Low battery disconnect, Safety timer)		
33	Maximum Wight		Grams
34	Maximum Dimensions		mm
35	Maximum Operating Temperatures		C
36	Minimum Operating Temperatures		C
37	Vibration and Shocks		
38	Thermal Management/Cooling technique		
39	Interface (Mechanical, Electrical & Cooling)		
40	Color and Marking		
41	Reliability		
42	Maintainability		
43	Testability		
44	EMC		
45	Required Standards (UL, CE, others)		
46	Quality Control		
47	RoHS		