

Definition of BCI Group Sizes

Group Size

Battery manufacturers build batteries in different sizes. These various sized batteries are identified as different group size by Battery Council International (BCI). The group size determines a battery's physical dimensions, such as length, width, and height. Automotive manufacturers provide a designated amount of space in the engine compartment to accommodate the battery's group size.

Passenger Car and Light Commercial Batteries 12-volt (6 cells)

Group Size Number	Length		Width		Height	
	millimeters	inches	millimeters	inches	millimeters	inches
21	208	8 3/16	173	6 13/16	222	8 3/4
22F	241	9 1/2	175	6 7/8	211	8 5/16
22HF	241	9 1/2	175	6 7/8	229	9
22NF	240	9 7/16	140	5 1/2	227	8 15/16
22R	229	9	175	6 7/8	211	8 5/16
24	260	10 1/4	173	6 13/16	225	8 7/8
24F	273	10 3/4	173	6 13/16	229	9
24H	260	10 1/4	173	6 13/16	238	9 3/8
24R	260	10 1/4	173	6 13/16	229	9
24T	260	10 1/4	173	6 13/16	248	9 3/4
25	230	9 1/16	175	6 7/8	225	8 7/8
26	208	8 3/16	173	6 13/16	197	7 3/4
26R	208	8 3/16	173	6 13/16	197	7 3/4
27	306	12 1/16	173	6 13/16	225	8 7/8
27F	318	12 1/2	173	6 13/16	227	8 15/16
27H	298	11 3/4	173	6 13/16	235	9 1/4
29NF	330	13	140	5 1/2	227	8 15/16
33	338	13 5/16	173	6 13/16	238	9 3/8
34	260	10 1/4	173	6 13/16	200	7 7/8
34R	260	10 1/4	173	6 13/16	200	7 7/8
35	230	9 1/16	175	6 7/8	225	8 7/8
36R	263	10 3/8	183	7 1/4	206	8 1/8
40R	277	10 15/16	175	6 7/8	175	6 7/8
41	293	11 3/16	175	6 7/8	175	6 7/8
42	243	9 5/16	173	6 13/16	173	6 13/16
43	334	13 1/8	175	6 7/8	205	8 1/16
45	240	9 7/16	140	5 1/2	227	8 15/16
46	273	10 3/4	173	6 13/16	229	9

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47	246	9 11/16	175	6 7/8	190	7 1/2
48	306	12 1/16	175	6 7/8	192	7 9/16
49	381	15	175	6 7/8	192	7 3/16
50	343	13 1/2	127	5	254	10
51	238	9 3/8	129	5 1/16	223	8 13/16
51R	238	9 3/8	129	5 1/16	223	8 13/16
52	186	7 5/16	147	5 13/16	210	8 1/4
53	330	13	119	4 11/16	210	8 1/4
54	186	7 5/16	154	6 1/16	212	8 3/8
55	218	8 5/8	154	6 1/16	212	8 3/8
56	254	10	154	6 1/16	212	8 3/8
57	205	8 1/16	183	7 3/16	177	6 15/16
58	255	10 1/16	183	7 3/16	177	6 15/16
58R	255	10 1/16	183	7 3/16	177	6 15/16
59	255	10 1/16	193	7 5/8	196	7 3/4
60	332	13 1/16	160	6 5/16	225	8 7/8
61	192	7 9/16	162	6 3/8	225	8 7/8
62	225	8 7/8	162	6 3/8	225	8 7/8
63	258	10 3/16	162	6 3/8	225	8 7/8
64	296	11 11/16	162	6 3/8	225	8 7/8
65	306	12 1/16	190	7 1/2	192	7 9/16
70	208	8 3/16	179	7 1/16	196	7 11/16
71	208	8 3/16	179	7 1/16	216	8 1/2
72	230	9 1/16	179	7 1/16	210	8 1/4
73	230	9 1/16	179	7 1/16	216	8 1/2
74	260	10 1/4	184	7 1/4	222	8 3/4
75	230	9 1/16	179	7 1/16	196	7 11/16
76	334	13 1/8	179	7 1/16	216	8 1/2
78	260	10 1/4	179	7 1/16	196	7 11/16
85	230	9 1/16	173	6 13/16	203	8
86	230	9 1/16	173	6 13/16	203	8
90	246	9 11/16	175	6 7/8	175	6 7/8
91	280	11	175	6 7/8	175	6 7/8
92	317	12 1/2	175	6 7/8	175	6 7/8
93	354	15	175	6 7/8	175	6 7/8
95R	394	15 9/16	175	6 7/8	190	7 1/2
96R	242	9 9/16	173	6 13/16	175	6 7/8
97R	252	9 15/16	175	6 7/8	190	7 1/2

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98R 283 11 3/16 175 6 7/8 190 7 1/2
Passenger Car and Light Commercial Batteries 6-volt (3 cells)

<i>Group Size Number</i>	<i>Length</i>		<i>Width</i>		<i>Height</i>	
	<i>millimeters</i>	<i>inches</i>	<i>millimeters</i>	<i>inches</i>	<i>millimeters</i>	<i>inches</i>
<i>1</i>	232	9 1/8	181	7 1/8	238	9 3/8
<i>2</i>	264	10 3/8	181	7 1/8	238	9 3/8
<i>2E</i>	492	19 7/16	105	4 1/8	232	9 1/8
<i>2N</i>	254	10	141	5 9/16	227	8 15/16
<i>17HF</i>	187	7 3/8	175	6 7/8	229	9

Heavy-Duty Commercial Batteries 12-volt (6 cells)

<i>Group Size Number</i>	<i>Length</i>		<i>Width</i>		<i>Height</i>	
	<i>millimeters</i>	<i>inches</i>	<i>millimeters</i>	<i>inches</i>	<i>millimeters</i>	<i>inches</i>
<i>4D</i>	527	20 3/4	222	8 3/4	250	9 7/8
<i>6D</i>	527	20 3/4	254	10	260	10 1/4
<i>8D</i>	527	20 3/4	283	11 1/8	250	9 7/8
<i>28</i>	261	10 5/16	173	6 13/16	240	9 7/16
<i>29H</i>	334	13 1/8	171	6 3/4	232	9 1/8 10
<i>30H</i>	343	13 1/2	173	6 13/16	235	9 1/4 10
<i>31</i>	330	13	173	6 13/18	240	9 7/16

Electric Vehicle Batteries 6-volt (3cells)

<i>Group Size Number</i>	<i>Length</i>		<i>Width</i>		<i>Height</i>	
	<i>millimeters</i>	<i>inches</i>	<i>millimeters</i>	<i>inches</i>	<i>millimeters</i>	<i>inches</i>
<i>GC2</i>	264	10 3/8	183	7 3/16	270	10 5/8
<i>GC2H</i>	264	10 3/8	183	7 3/16	295	11 5/8