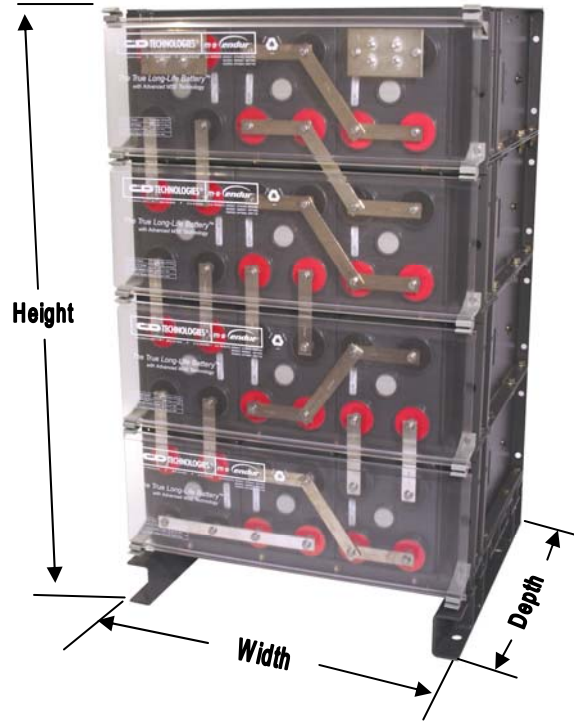


msEndur II Stackable Module System and Module Dimensions



System Shown:
AT-19P
3 Cells Wide
4 Modules High

The msEndur II products are available in stackable modules that can be configured to meet your specific system needs. The table below contains the available module sizes and the number of cells wide of each msEndur II model that fit into the modules. These are the standard module sizes for each model that get stacked into the systems.

msEndur II Module Widths and Number of Cells Wide Configurations										
Module Size	Width		AT-7P	AT-9P	AT-11P AT-13P	AT-15P AT-17P	AT-19P AT-21P	AT-23P AT-25P	AT-27P AT-29P	AT-35P AT-39P
	inches	mm								
16	16.04	407	4W			2W				
19	19.32	491	5W	4W						
22	22.61	574	6W		4W	3W		2W		
26	26.13	664					3W			
27	27.86	708		6W	5W	4W				
30	30.44	773	8W					3W		2W
31	31.37	797			6W					
34	34.44	875		8W			4W		3W	
35	35.76	908	10W							
39	39.54	1004						4W		
40	40.86	1038				6W				
43	43.62	1108								3W
45	45.53	1156							4W	
49	49.40	1255					6W			
58	58.37	1483								4W

All modules are 24.75 inches deep and 9.94 inches tall

Typical system configurations and dimensions are listed in the following tables. The systems listed below are for equal stack heights only. This list is not exhaustive and the user should contact C&D directly for information and drawings on standard systems that may have unequal stack heights that best suit specific system configurations.

Contact C&D technologies on information regarding seismic standards for the selected systems.

msEndur II System Configurations and Dimensions

No. Cells/ Module	msEndur II Model	System Voltage	No. of Stacks	No. of Modules High per Stack ⁷	Total No. of Modules	Constant Current Rating ¹	Constant Power Rating ²	Width ³		Depth ⁴		Height ⁵		Weight / Stack ⁶	
						AH	kW/Cell	inches	mm	inches	mm	inches	mm	lbs	kgs
10	AT-07P	120	1	6	6	344	0.669	35.76	908	24.75	629	62.14	1578	4675	2121
		480	3	8	24							82.02	2083	6205	2815
8	AT-07P	48	1	3	3	344	0.669	30.44	773	24.75	629	32.32	821	1965	891
		480	3	10	30							101.90	2588	6415	2910
	AT-09P	48	1	3	3	480	0.892	33.46	850			32.32	821	2392	1085
		480	3	10	30							101.90	2588	7822	3548
6	AT-07P	24	1	2	2	344	0.669	22.61	574	24.75	629	22.38	568	1010	458
		48	1	4	4							42.26	1073	1960	889
		120	1	10	10							101.90	2588	4850	2200
		480	4	10	40							101.90	2588	4850	2200
	AT-09P	24	1	2	2	480	0.892	27.86	708			22.38	568	1250	567
		48	1	4	4							42.26	1073	2430	1102
		120	1	10	10							101.90	2588	6010	2726
		480	4	10	40							101.90	2588	6010	2726
	AT-11P	24	1	2	2	600	1.115	31.37	797			22.38	568	1469	666
		48	1	4	4							42.26	1073	2861	1298
		120	1	10	10							101.90	2588	7077	3210
		480	4	10	40							101.90	2588	7077	3210
	AT-15P	24	1	2	2	840	1.561	40.86	1038			22.38	568	1825	828
		48	1	4	4							42.26	1073	3555	1613
		120	1	10	10							101.90	2588	8785	3985
		480	4	10	40							101.90	2588	8785	3985
	AT-17P	24	1	2	2	920	1.784	49.40	1255			22.38	568	1825	828
		48	1	4	4							42.26	1073	3555	1613
		120	1	10	10							101.90	2588	8785	3985
		480	4	10	40							101.90	2588	8785	3985
	AT-19P	24	1	2	2	1080	2.007	49.40	1255			22.38	568	2326	1055
		48	1	4	4							42.26	1073	4536	2058
		120	2	5	10							52.20	1326	5641	2559
	AT-21P	24	1	2	2	1152	2.230	49.40	1255			22.38	568	2326	1055
48		1	4	4	42.26					1073	4536	2058			
120		2	5	10	52.20					1326	5641	2559			
5	AT-07P	120	2	6	12	344	0.669	19.32	491	24.75	629	62.14	1578	2460	1116
		480	6	8	48							82.02	2083	3260	1479
	AT-11P	120	2	6	12	600	1.115	26.13	664			62.14	1578	3634	1648
		480	6	8	48							82.02	2083	4822	2187

¹ Constant Current @ 8 hrs to 1.75 FV/C

² Constant Power @ 15 min to 1.67 FV/C

³ Single module/stack width

To calculate total system width: Total System Width = No. of Stacks x width + [4"x (No. of Stacks-1)]
assumes 4" spacing between stacks

⁴ Depth dimension is overall module depth including face plate

⁵ Height includes low profile base. If using standard base, add 2.5 inches to height.

Terminal plates are not included in overall height dimension

⁶ Weight per stack includes low profile base, modules with cells, average inter-cell connector weights, and face plates

⁷ 10 high systems require low profile base and NEBS brace kits included in weight

msEndur II System Configurations and Dimensions

No. Cells/ Module	msEndur II Model	System Voltage	No. of Stacks	No. of Modules High per Stack ⁷	Total No. of Modules	Constant Current Rating ¹	Constant Power Rating ²	Width ³		Depth ⁴		Height ⁵		Weight / Stack ⁶	
						AH	kW/Cell	inches	mm	inches	mm	inches	mm	lbs	kgs
4	AT-09P	24	1	3	3	480	0.892	19.32	491	24.75	629	32.32	821	1254	569
		48	1	6	6							62.14	1578	2454	1113
		480	6	10	60							101.90	2588	4094	1857
	AT-11P	24	1	3	3	600	1.115	22.61	574			32.32	821	1488	675
		48	1	6	6							62.14	1578	2916	1323
		480	6	10	60							101.90	2588	4860	2204
	AT-15P	24	1	3	3	840	1.561	27.86	708			32.32	821	1840	835
		48	1	6	6							62.14	1578	3610	1637
		480	6	10	60							101.90	2588	6010	2726
	AT-17P	24	1	3	3	920	1.784	27.86	708			32.32	821	1840	835
		48	1	6	6							62.14	1578	3610	1637
		480	6	10	60							101.90	2588	6010	2726
	AT-19P	24	1	3	3	1080	2.007	34.44	875			32.32	821	2282	1035
		48	1	6	6							62.14	1578	4481	2033
		480	6	10	60							101.90	2588	7453	3381
	AT-21P	24	1	3	3	1152	2.230	34.44	875			32.32	821	2282	1035
		48	1	6	6							62.14	1578	4481	2033
		480	6	10	60							101.90	2588	7453	3381
	AT-23P	24	1	3	3	1320	1.368	39.54	1004			32.32	821	2658	1206
		48	1	6	6							62.14	1578	5223	2369
		480	6	10	60							101.90	2588	8683	3939
	AT-25P	24	1	3	3	1376	1.492	39.54	1004			32.32	821	2658	1206
		48	1	6	6							62.14	1578	5223	2369
		480	6	10	60							101.90	2588	8683	3939
AT-27P	24	1	3	3	1560	1.617	45.53	1156	32.32	821	3165	1436			
	48	1	6	6					62.14	1578	6225	2824			
AT-29P	24	1	3	3	1608	1.741	45.53	1156	32.32	821	3165	1436			
	48	1	6	6					62.14	1578	6225	2824			
AT-35P	24	1	3	3	2040	-	58.37	1483	32.32	821	4130	1873			
	48	1	6	6					62.14	1578	8120	3683			
AT-39P	24	1	3	3	2184	-	58.37	1483	32.32	821	4130	1873			
	48	1	6	6					62.14	1578	8120	3683			
3	AT-15P	24	1	4	4	840	1.561	22.61	574	42.26	1073	1852	840		
		48	1	8	8					82.02	2083	3644	1653		
		120	4	5	20					52.20	1326	2300	1043		
	AT-17P	24	1	4	4	920	1.784	22.61	574	42.26	1073	1852	840		
		48	1	8	8					82.02	2083	3644	1653		
		120	4	5	20					52.20	1326	2300	1043		
	AT-19P	24	1	4	4	1080	2.007	26.13	664	42.26	1073	2299	1043		
		48	1	8	8					82.02	2083	4531	2055		
		120	4	5	20					52.20	1326	2857	1296		
	AT-21P	24	1	4	4	1152	2.230	26.13	664	42.26	1073	2299	1043		
		48	1	8	8					82.02	2083	4531	2055		
		120	4	5	20					52.20	1326	2857	1296		
	AT-23P	24	1	4	4	1320	1.368	30.44	773	42.26	1073	2675	1213		
		48	1	8	8					82.02	2083	5275	2393		
		120	4	5	20					52.20	1326	3325	1508		
	AT-25P	24	1	4	4	1376	1.492	30.44	773	42.26	1073	2675	1213		
		48	1	8	8					82.02	2083	5275	2393		
		120	4	5	20					52.20	1326	3325	1508		
	AT-27P	24	1	4	4	1560	1.617	34.44	875	42.26	1073	3063	1389		
		48	1	8	8					82.02	2083	6043	2741		
		120	4	5	20					52.20	1326	3808	1727		
	AT-29P	24	1	4	4	1608	1.741	34.44	875	42.26	1073	3063	1389		
		48	1	8	8					82.02	2083	6043	2741		
		120	4	5	20					52.20	1326	3808	1727		
AT-35P	24	1	4	4	2040	-	43.62	1108	42.26	1073	4001	1815			
	48	1	8	8					82.02	2083	7901	3584			
	120	4	5	20					52.20	1326	4976	2257			
AT-39P	24	1	4	4	2184	-	43.62	1108	42.26	1073	4001	1815			
	48	1	8	8					82.02	2083	7901	3584			
	120	4	5	20					52.20	1326	4976	2257			

See Notes on next page

msEndur II System Configurations and Dimensions

No. Cells/ Module	msEndur II Model	System Voltage	No. of Stacks	No. of Modules High per Stack ⁷	Total No. of Modules	Constant Current Rating ¹	Constant Power Rating ²	Width ³		Depth ⁴		Height ⁵		Weight / Stack ⁶	
						AH	kW/Cell	inches	mm	inches	mm	inches	mm	lbs	kgs
2	AT-23P	24	1	6	6	1320	1.368	22.61	574	24.75	629	62.14	1578	2700	1225
		48	2	6	12							62.14	1578	2700	1225
		120	3	10	30							101.90	2588	4460	2023
	AT-25P	24	1	6	6	1376	1.492	22.61	574	24.75	629	62.14	1578	2700	1225
		48	2	6	12							62.14	1578	2700	1225
		120	3	10	30							101.90	2588	4460	2023
	AT-35P	24	1	6	6	2040	-	30.44	773	24.75	629	62.14	1578	4035	1830
		48	2	6	12							62.14	1578	4035	1830
		120	3	10	30							101.90	2588	6675	3028
	AT-39P	24	1	6	6	2184	-	30.44	773	24.75	629	62.14	1578	4035	1830
		48	2	6	12							62.14	1578	4035	1830
		120	3	10	30							101.90	2588	6675	3028

¹ Constant Current @ 8 hrs to 1.75 FV/Cell @ 77°F (25°C)

² Constant Power @ 15 min to 1.67 FV/Cell @ 77°F (25°C)

³ Single module/stack width

To calculate total system width: $\text{Total System Width} = \text{No. of Stacks} \times \text{width} + [4" \times (\text{No. of Stacks} - 1)]$
 assumes 4" spacing between stacks

⁴ Depth dimension is overall module depth including face plate

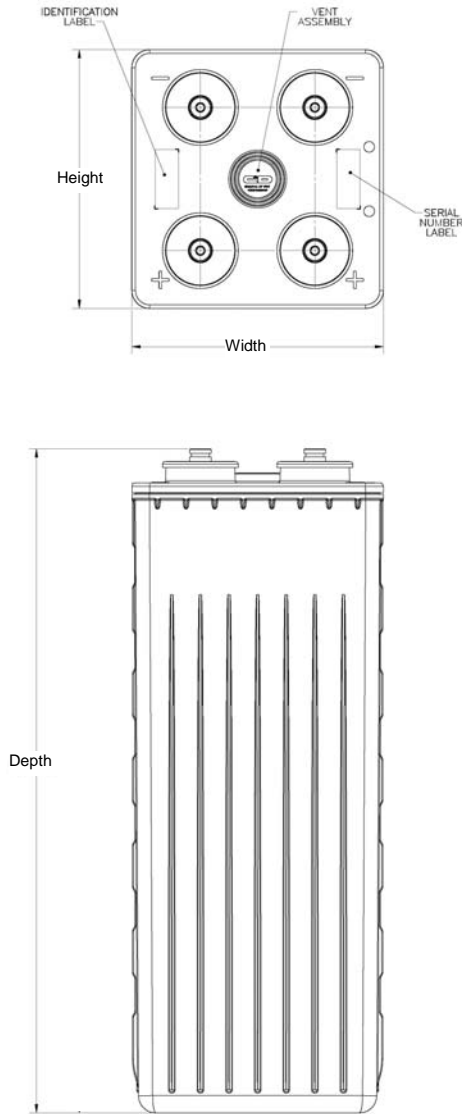
⁵ Height includes low profile base. If using standard base, add 2.5 inches to height.

Terminal plates are not included in overall height dimension

⁶ Weight per stack includes low profile base, modules with cells, average inter-cell connector weights, and face plates

⁷ 10 high systems require low profile base and NEBS brace kits included in weight

Individual msEndur II Cell Dimensions



Individual Cell Dimensions (not including module)						
msEndur II Model	Width		Depth (Length)		Height	
	inches	mm	inches	mm	inches	mm
AT-07P	3.11	79	23.19	589	9.04	230
AT-09P	3.84	98				
AT-11P	4.57	116				
AT-15P	6.12	155				
AT-17P	6.12	155				
AT-19P	7.49	190				
AT-21P	7.49	190				
AT-23P	8.80	224				
AT-25P	8.80	224				
AT-27P	10.14	258				
AT-29P	10.14	258				
AT-35P	13.35	339				
AT-39P	13.35	339				