

VRLA Series Battery

阀控铅酸蓄电池系列

行业应用

电力、通信系统/太阳能储能系统/UPS不间断电源系统/EPS消防应急电源系统/应急照明系统、小型灯具/电子衡器系统/铁路机车、铁路通信系统/船舶系统/电动自行车、电动摩托车

Industrial Applications

Electricity & Communication System/Solar Energy Storage System/Uninterruptible Power Supply System/Emergency Power Supply System/Emergency lighting systems, Small Lamp/Electronic weighing System/Railway locomotive & Railway communication system/Shipping System/Electric Bicycle & Electric Motorcycle

BB系列阀控式

BB系列阀控式密封铅酸蓄电池，采用先进的工艺技术。

BB系列蓄电池目前拥有三大系列共40余种规格。FM系列运用预压缩结构、高分子虑酸片安全阀，多个排气阀开闭阀压力经结构改造，均保持基本一致，保证了蓄电池质量的一致性，特别适合与设备共室使用。

多项成熟技术及进口品牌的ABS材料外壳并引进国际先进国内一流的生产与检测设备及理化实验室及在技术上的持续投资，使我们的产品拥有更精良的品质、更高的可靠性。

The "BB" brand valve regulated lead-acid battery use the advanced craft, much mature technologies.

The "BB" brand VRLA battery includes three big series, more than 40 models. Using precompression structures, high polymer ponder the sour piece safety valves, and many discharge valve open & close valve pressure after the structure transformed, battery maintains basic consistent, has guaranteed the quality uniformity, especially quality using with other equipments in altogether room.

The imported ABS materials of containers, and introduce the international advanced & domestic first-class production and inspection machines, physics & chemistry laboratory, continually investment on technology, enabling our products have more excellent quality and higher reliability.

GFM(2V)系列

GFM(2V)系列蓄电池，容量从100Ah-3000Ah，采用了国内最先进的单体安全阀及极柱O型圈压紧密封技术，保证了蓄电池在长期浮充运行中电压的一致性及极柱的爬酸现象的产生，确保蓄电池的长寿命。

GFM(2V) series battery, capacity from 100Ah to 3000Ah, has used the domestic advanced monomer safety value and the terminal post "O" circle pinch-off seal technology, has guaranteed the voltage of battery is uniformity during the long-term floating movement, avoids the terminal post crawling the sour phenomenon, and guarantees battery's long working life.

DZM电动车专用系列

DZM电动车专用系列蓄电池，容量从10Ah-20Ah，采用了先进的极板技术及防泄漏设计。具有容量大、大倍率放电性能佳及循环寿命长等特点，已广泛运用于电动自行车。

The DZM series battery that special-purpose for electric vehicles, capacity from 10Ah to 20Ah, using the advanced plate technology and against divulging design. The DZM series has great capacity, good performance by big-current discharging, good & long circulation life and other characteristics, has already widely used for electric bicycle,

FM Series VRLA Battery

FM系列阀控式铅酸蓄电池



产品特性 Product characteristics

槽式化成保证电池达到100%容量，并使电池均衡性达到最优化。

高可靠的极柱双重密封结构，其抗冲击性能及密封性能大大提高，确保电解液不会渗出，提高了产品的可靠性。

安全可靠，内置国内先进防爆虑酸片安全阀，具有精确的开闭阀压力及防爆、过滤酸雾功能，一旦过充，可释放出多余气体，不会使电池胀裂、酸雾逸出。

采用超纯原辅材料和添加剂、特殊配方的电解液，具有内阻小，高倍率特性好、充电接受能力强的特点。

采用先进的工艺技术（合金工艺、铅膏工艺、电解液配方、环氧封结工艺），确保产品良好性能。

The trough type turns into guaranteed that the battery achieves 100% capacities, and enables batteries' equalization to reach the best.

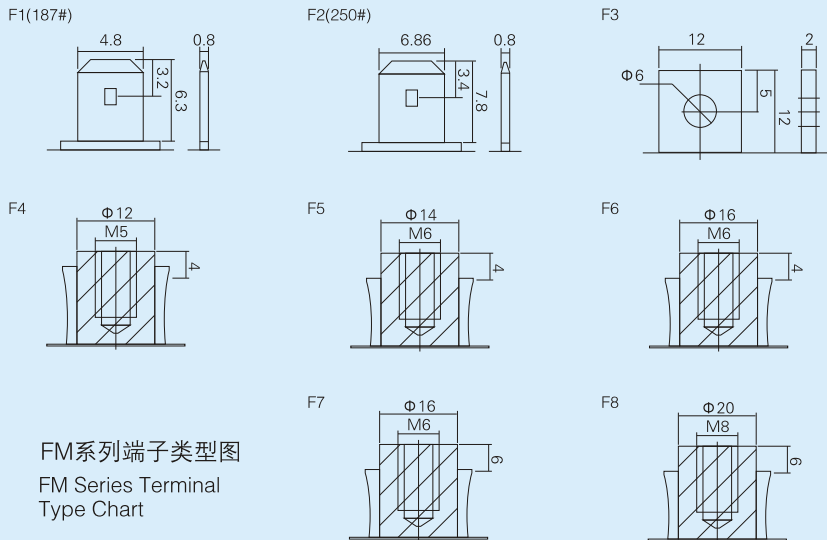
The high reliable terminal posts dual sealed structures,its anti-impact properties and the sealing property enhance greatly, guaranteed that the electrolyte could not seep out,enhanced the products' reliability.

Safe reliable,the built-in domestic advanced explosion-proof ponders the sour piece safety valve,has the precise open &close valve pressure and the explosion-proof,the filtration acid fog function,once over-charging, may release the unnecessary gas, don't cause the battery expansion crack or acid fog spill over.

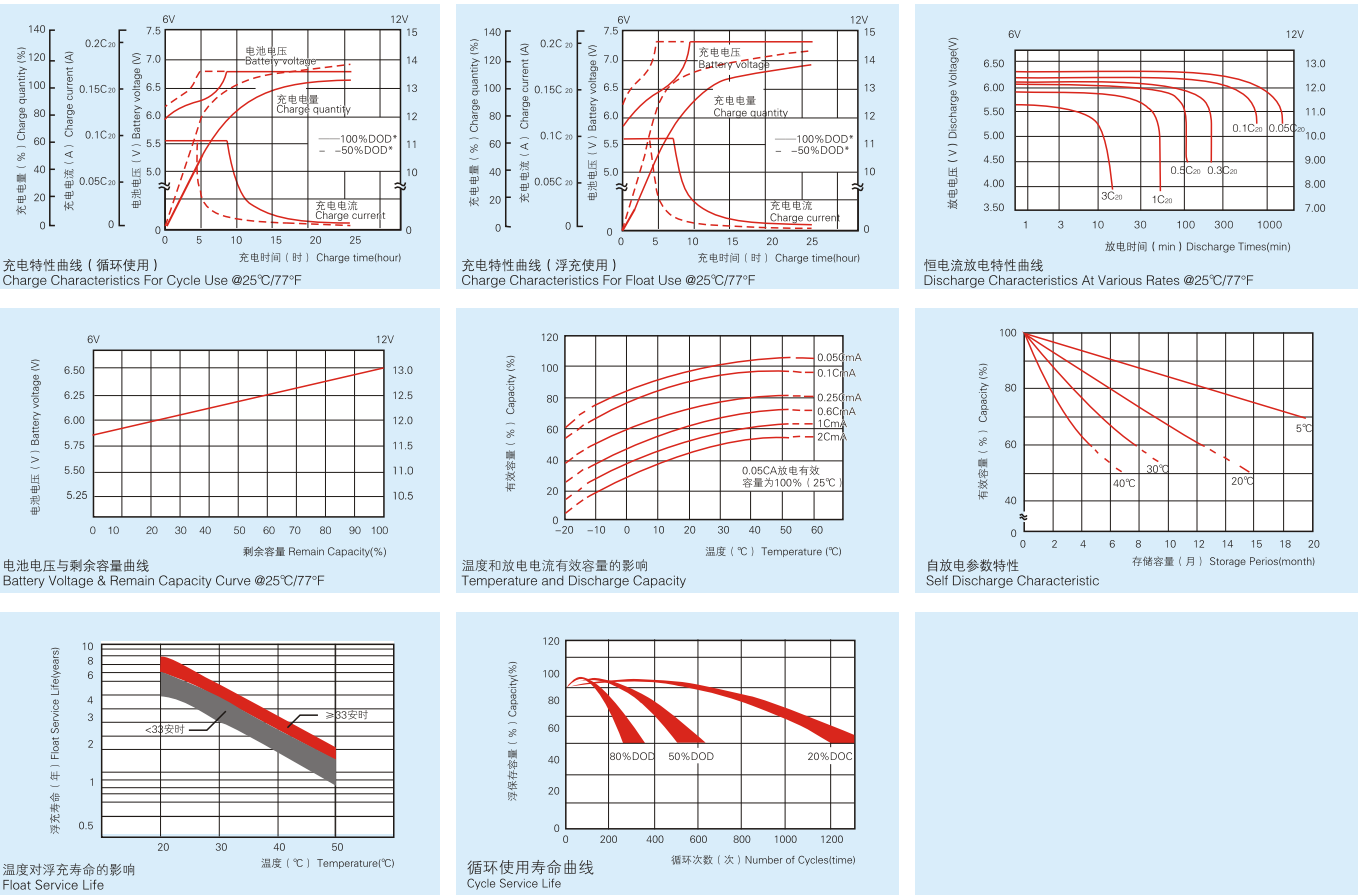
Use the high-pure original auxiliary materials and the chemical additive, the special formula electrolyte,makes that the internal resistance is smaller, the high percentage characteristic is better, the ability of charging acceptability is stronger.

Use the advanced processing technology (alloying technology, plaster of lead craft,electrolyte formula,epoxy to seal ties craft), guarantees the products have good Performance.

端子类型图 Terminal type



FM系列特性曲线图 FM Series Characteristics Curve



FM系列性能参数 FM Series Performance Parameter

蓄电池型号 Model	额定电压(V) Nominal Voltage	额定容量(Ah) Nominal Capacity	外型尺寸 Dimensions(mm)				内阻 (mΩ) Internal Resistance	重量 (kg) Weight	端子型号 Terminal Model
			长L	宽W	槽高H	总高TH			
FM/BB64	6	4	70	46	100	105	25	0.7	F1
FM/BB610	6	10	151	50	94	99	13	1.6	F1
FM/BB124	12	4	90	70	101	106	42	1.5	F1
FM/BB127	12	7	151	65	95	101	27	2.3	F2
FM/BB1210	12	10	181	76	121	121	20	3.4	F2
FM/BB1212	12	12	151	99	94	100	15	3.7	F2
FM/BB1218	12	18	181	76	168	168	13	5.3	F3
FM/BB1220	12	20	181	76	168	168	12.5	6.1	F3
FM/BB1224T	12	24	175	165	125	125	12	7.5	F4
FM/BB1226T	12	26	175	165	125	125	12	8.0	F4
FM/BB1228T	12	28	175	165	125	125	9.5	8.3	F4
FM/BB1233T	12	33	195	130	162	166	9.0	10.0	F5
FM/BB1240T	12	40	196	165	176	176	8.5	12.5	F6
FM/BB1255T	12	55	229	139	210	216	6.5	16.0	F7
FM/BB1265T	12	65	350	166	175	175	6.0	21.0	F8
FM/BB1275T	12	75	259	168	208	214	4.7	22.0	F7
FM/BB12100M	12	100	330	173	216	222	3.8	28.0	F8
FM/BB12100T	12	100	330	173	216	222	3.6	31.0	F8
FM/BB12120T	12	120	408	172	237	237	3.3	36.0	F8
FM/BB12135T	12	135	482	170	241	241	3.2	42.0	F8
FM/BB12150T	12	150	482	170	241	241	3.2	45.5	F8
FM/BB12200T	12	200	521	238	215	221	2.8	61.0	F8

FM系列恒电流放电参数 FM Series Constant Current Discharge Parameter @25℃/77°F

电池型号 Model	终止电压 Final Voltage	放电时间 Discharge Time										
		5M	15M	30M	45M	1h	2h	3h	5h	8h	10h	20h
FM/BB 64	5.4	10.30	6.38	3.80	2.98	2.20	1.30	1.00	0.64	0.42	0.38	0.19
	5.25	11.40	6.34	3.90	3.05	2.30	1.40	1.06	0.68	0.45	0.39	0.20
	5.10	12.60	7.06	4.30	3.28	2.60	1.50	1.09	0.70	0.47	0.39	0.21
	4.95	13.30	7.30	4.46	3.32	2.67	1.50	1.09	0.70	0.47	0.40	0.21
	4.80	14.10	7.60	4.60	3.32	2.67	1.50	1.09	0.70	0.47	0.40	0.21
FM/BB 610	5.4	25.80	15.90	9.50	7.45	5.50	3.25	2.50	1.60	1.05	0.95	0.48
	5.25	28.50	15.85	9.75	7.62	5.75	3.50	2.65	1.70	1.12	0.97	0.50
	5.10	31.50	17.65	10.70	8.20	6.50	3.75	2.72	1.75	1.17	0.97	0.52
	4.95	33.20	18.20	11.10	8.30	6.67	3.80	2.72	1.76	1.18	1.00	0.52
	4.80	35.20	19.00	11.50	8.30	6.67	3.80	2.72	1.76	1.18	1.00	0.52
FM/BB 124	10.8	10.30	6.38	3.80	2.98	2.20	1.30	1.00	0.64	0.42	0.38	0.19
	10.5	11.40	6.34	3.90	3.05	2.30	1.40	1.06	0.68	0.45	0.39	0.20
	10.2	12.60	7.06	4.30	3.28	2.60	1.50	1.09	0.70	0.47	0.39	0.21
	9.9	13.30	7.30	4.46	3.32	2.67	1.50	1.09	0.70	0.47	0.40	0.21
	9.6	14.10	7.60	4.60	3.32	2.67	1.50	1.09	0.70	0.47	0.40	0.21
FM/BB 127	10.8	20.00	10.60	6.80	5.15	4.20	2.50	1.82	1.19	0.80	0.65	0.35
	10.5	22.00	11.20	7.06	5.30	4.30	2.54	1.83	1.20	0.80	0.66	0.35
	10.2	23.40	11.60	7.21	5.38	4.35	2.55	1.84	1.20	0.80	0.66	0.35
	9.9	24.30	11.90	7.30	5.43	4.38	2.55	1.84	1.20	0.80	0.66	0.35
	9.6	24.80	12.00	7.35	5.46	4.39	2.56	1.84	1.20	0.80	0.66	0.35
FM/BB 1210	10.8	25.90	16.00	10.60	7.90	6.40	3.70	2.60	1.70	1.15	0.98	0.50
	10.5	28.70	16.80	10.70	8.10	6.60	3.70	2.70	1.70	1.20	1.00	0.50
	10.2	32.00	17.80	11.00	8.30	6.70	3.80	2.75	1.80	1.20	1.00	0.51
	9.9	33.70	18.40	11.20	8.30	6.70	3.80	2.75	1.80	1.20	1.00	0.51
	9.6	35.50	19.20	11.40	8.30	6.70	3.80	2.75	1.80	1.20	1.00	0.51
FM/BB 1212	10.8	42.40	21.90	12.90	9.38	7.47	4.26	3.05	1.98	1.32	1.09	0.59
	10.5	46.50	22.90	13.30	9.58	7.59	4.30	3.06	1.99	1.33	1.09	0.60
	10.2	50.00	23.60	13.50	9.69	7.65	4.30	3.06	1.99	1.33	1.10	0.60
	9.9	51.80	23.80	13.60	9.74	7.68	4.32	3.07	1.99	1.33	1.10	0.60
	9.6	52.40	24.00	13.70	9.80	7.73	4.34	3.09	2.00	1.34	1.10	0.61
FM/BB 1218	10.8	45.60	27.40	17.30	13.10	10.80	6.18	4.42	2.94	1.96	1.62	0.90
	10.5	50.10	29.50	18.30	13.20	11.00	6.44	4.53	3.00	2.05	1.67	0.90
	10.2	55.40	30.40	18.60	13.60	11.20	6.45	4.69	3.00	2.07	1.70	0.91
	9.9	61.20	30.80	18.70	13.80	11.30	6.45	4.69	3.00	2.07	1.70	0.91
	9.6	63.70	31.40	19.10	14.00	11.40	6.45	4.69	3.00	2.07	1.70	0.91
FM/BB 1224T	10.8	60.77	36.57	23.17	17.44	14.67	8.24	5.89	3.92	2.62	2.16	1.20
	10.5	66.81	39.45	24.57	17.60	14.81	8.53	6.04	3.99	2.72	2.22	1.20
	10.2	74.01	40.41	24.81	18.07	14.97	8.60	6.26	4.00	2.76	2.26	1.21
	9.9	81.50	41.19	24.92	18.40	15.03	8.60	6.26	4.00	2.76	2.26	1.22
	9.6	84.96	42.43	25.44	18.63	15.21	8.60	6.26	4.00	2.76	2.26	1.22
FM/BB 1226T	10.8	65.83	39.62	25.10	18.89	15.89	8.93	6.38	4.25	2.84	2.34	1.30
	10.5	72.38	42.74	26.62	19.07	16.04	9.24	6.54	4.32	2.95	2.41	1.30
	10.2	80.18	43.78	26.88	19.58	16.22	9.32	6.78	4.33	2.99	2.45	1.30
	9.9	88.29	44.62	27.00	19.93	16.28	9.32	6.78	4.33	2.99	2.45	1.31
	9.6	92.04	45.97	27.56	20.18	16.48	9.32	6.78	4.33	2.99	2.45	1.32
FM/BB 1228T	10.8	70.89	42.67	27.03	20.34	17.11	9.62	6.87	4.58	3.06	2.52	1.40
	10.5	77.95	46.03	28.67	20.54	17.27	9.95	7.04	4.65	3.18	2.60	1.40
	10.2	86.35	47.15	28.95	21.09	17.47	10.04	7.30	4.66	3.22	2.64	1.41
	9.9	95.08	48.05	29.08	21.46	17.53	10.04	7.30	4.66	3.22	2.64	1.42
	9.6	99.12	49.51	29.68	21.73	17.75	10.04	7.30	4.66	3.22	2.64	1.42
FM/BB 1233T	10.8	83.60	50.30	31.80	24.00	20.20	11.30	8.10	5.40	3.60	3.00	1.65
	10.5	91.90	54.30	33.80	24.20	20.40	11.80	8.30	5.50	3.70	3.10	1.65
	10.2	102.0	55.80	34.10	25.00	20.60	11.80	8.60	5.50	3.80	3.10	1.82
	9.9	112.0	56.60	34.30	25.30	20.70	11.80	8.60	5.50	3.80	3.10	1.82
	9.6	117.0	58.30	35.00	25.60	20.90	11.80	8.60	5.50	3.80	3.10	1.82

FM系列恒电流放电参数 FM Series Constant Current Discharge Parameter @25℃/77°F

电池型号 Model	终止电压 Final Voltage	放电时间 Discharge Time										
		5M	15M	30M	45M	1h	2h	3h	5h	8h	10h	20h
FM/BB 1240T	10.8	99.40	64.70	43.40	33.20	26.60	15.20	10.90	7.00	4.61	3.77	1.97
	10.5	111.0	69.60	45.70	34.30	27.30	15.50	11.00	7.10	4.67	3.81	2.00
	10.2	119.0	72.60	46.20	34.80	27.70	15.70	11.10	7.13	4.69	3.83	2.01
	9.9	126.0	75.330	46.90	34.90	27.80	15.70	11.10	7.15	4.70	3.84	2.01
	9.6	131.0	77.00	47.30	35.00	27.80	15.70	11.20	7.16	4.71	3.84	2.02
FM/BB 1255T	10.8	136.6	88.96	59.68	45.65	36.58	20.90	14.99	9.63	6.34	5.18	2.71
	10.5	152.6	95.70	62.84	47.16	37.54	21.31	15.13	9.76	6.42	5.24	2.75
	10.2	163.0	99.83	63.53	47.85	38.09	21.59	15.26	9.80	6.45	5.27	2.76
	9.9	173.0	103.5	64.49	47.99	38.23	21.59	15.26	9.83	6.46	5.28	2.76
	9.6	180.1	105.88	65.04	48.13	38.23	21.59	15.40	9.85	6.48	5.28	2.78
FM/BB 1265T	10.8	162.0	105.0	70.50	53.90	43.20	24.70	17.60	11.40	7.49	6.12	3.21
	10.5	180.0	113.0	74.30	55.80	44.40	25.30	17.90	11.50	7.59	6.20	3.25
	10.2	193.0	118.0	75.10	56.50	45.00	25.50	18.10	11.60	7.62	6.22	3.26
	9.9	205.0	122.0	76.80	57.00	45.10	25.50	18.10	11.60	7.63	6.23	3.27
	9.6	213.0	125.0	76.80	57.00	45.20	25.60	18.10	11.60	7.65	6.25	3.28
FM/BB 1275T	10.8	209.0	124.0	78.00	60.10	46.50	28.70	18.80	12.20	8.90	7.50	3.80
	10.5	231.0	134.0	82.00	60.60	47.60	29.30	19.30	12.50	9.00	7.60	3.90
	10.2	257.0	141.0	84.00	62.60	48.10	29.50	19.40	12.60	9.10	7.70	4.00
	9.9	273.0	143.0	85.00	63.20	48.50	29.70	19.50	12.70	9.20	7.70	4.10
	9.6	281.0	146.0	86.00	63.80	48.80	29.90	19.60	12.80	9.20	7.80	4.10
FM/BB 12100M	10.8	233.0	148.0	95.00	70.20	50.30	32.00	24.00	16.20	11.00	9.30	4.92
	10.5	261.0	154.0	98.00	72.90	52.00	33.00	25.00	16.50	1140	9.54	5.00
	10.2	292.0	162.0	100.0	74.60	53.40	35.90	26.00	16.90	11.50	9.60	5.03
	9.9	320.0	170.0	103.0	77.00	55.00	36.00	26.00	16.90	11.50	9.64	5.05
	9.6	349.0	172.0	105.0	77.40	55.30	36.00	26.00	16.90	11.50	9.69	5.06
FM/BB 12100T	10.8	244.0	158.0	107.0	80.10	63.40	38.90	28.00	18.30	12.10	9.87	5.14
	10.5	274.0	168.0	111.0	82.90	65.40	39.80	28.50	18.50	12.30	10.0	5.20
	10.2	304.0	178.0	115.0	84.70	66.70	40.30	28.80	18.70	12.30	10.08	5.25
	9.9	337.0	184.0	117.0	86.20	67.70	40.70	29.10	18.80	12.40	10.12	5.28
	9.6	361.0	189.0	119.0	87.50	68.70	41.10	29.40	18.90	12.50	10.17	5.30
FM/BB 12120T	10.8	292.0	189.0	128.0	96.10	76.00	46.70	33.60	21.90	14.50	11.80	6.17
	10.5	328.0	201.0	133.0	99.50	78.50	47.70	34.20	22.20	14.70	12.00	6.20
	10.2	364.0	213.0	138.0	102.0	80.00	48.30	34.50	22.40	14.70	12.10	6.25
	9.9	404.0	220.0	140.0	103.0	81.20	48.80	34.90	22.50	14.80	12.15	6.30
	9.6	433.0	226.0	142.0	105.0	82.40	49.30	35.20	22.60	15.00	12.21	6.32
FM/BB 12135T	10.8	329.0	213.0	144.0	108.0	85.60	52.50	37.80	24.70	16.30	13.30	6.85
	10.5	369.0	226.0	149.0	111.0	88.30	53.70	38.40	24.90	16.60	13.50	6.98
	10.2	410.0	240.0	155.0	114.0	90.00	54.40	38.80	25.20	16.60	13.60	7.06
	9.9	455.0	248.0	158.0	116.0	91.40	54.90	39.20	25.30	16.70	13.60	7.10
	9.6	487.0	255.0	160.0	118.0	92.75	55.40	39.60	25.50	16.80	13.70	7.14
FM/BB 12150T	10.8	366.0	237.0	160.0	120.0	95.10	58.30	42.00	27.40	18.10	14.80	7.70
	10.5	411.0	252.0	166.0	124.0	98.10	59.70	42.70	27.70	18.40	15.00	7.75
	10.2	456.0	267.0	172.0	127.0	100.0	60.40	43.20	28.00	18.40	15.10	7.82
	9.9	505.0	276.0	175.0	129.0	101.5	61.00	43.60	28.20	18.60	15.20	7.90
	9.6	541.0	283.0	178.0	131.0	103.0	61.60	44.10	28.30	18.70	15.30	7.95
FM/BB 12200T	10.8	488.0	316.0	213.0	160.0	126.0	77.70	56.00	36.50	24.10	19.73	10.27
	10.5	548.0	336.0	221.0	165.0	130.0	79.60	56.90	36.90	24.50	20.00	10.33
	10.2	608.0	356.0	229.0	169.0	133.0	80.50	57.60	37.30	24.50	20.13	10.43
	9.9	673.0	368.0	233.0	172.0	135.0	81.30	58.10	37.60	24.80	20.27	10.53
	9.6	721.0	377.0	237.0	174.0	137.0	82.10	58.80	37.70	24.90	20.40	10.60