

**Powerfit™**

The Powerfit™ valve regulated maintenance-free lead acid storage battery adopts advanced AGM technology for design and production, and is widely applied to an array of fields including telecom, electricity, rail transit and its auxiliary system, UPS system, emergency lighting system, and renewable energy, etc.

**Powerfit™**

Industrial Battery – Network Power

# Powerfit JTT series

High-power AGM storage battery



**GNB®**  
INDUSTRIAL POWER

**GNB® INDUSTRIAL POWER**

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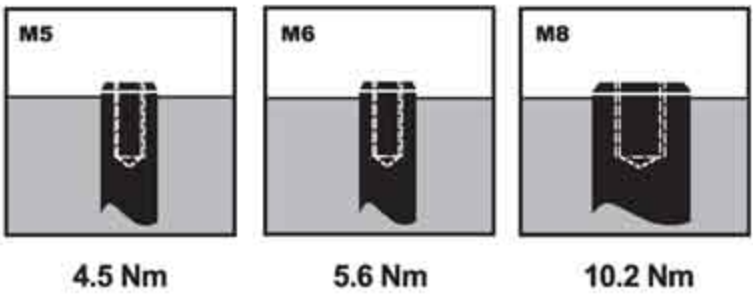


Technical characteristics

Model	Nominal voltage (V)	Nominal capacity		Max. Dimension (mm)			Weight (Kg) (approximate)	Internal resistance 5s (A)	Terminal
		C <sub>10</sub> (25°C, 1.80Vpc) (Ah)	P <sub>15</sub> (25°C, 1.60Vpc) (W/block)	Length (l)	Width (b/w)	Height (h)*			
JTT12V410	12	16.1	408	181	76	166	6.15	255	M5
JTT12V620	12	24.3	624	166	175	125	9.40	390	M5
JTT12V790	12	30.9	792	210	129	179	11.3	495	M6
JTT12V960	12	37.4	960	197	165	171	14.3	600	M6
JTT12V1560	12	60.8	1513	350	166	174	22.4	650	M6
JTT12V2110	12	84.2	2110	329	172	221	30.8	900	M6
JTT12V2320	12	93.6	2320	329	172	221	32.7	1000	M6
JTT12V2640	12	112	2640	407	173	239	39.5	1200	M6
JTT12V3300	12	150	3300	483	171	240	51.2	1600	M8
JTT12V4190	12	190	4190	522	202	221	61.5	2000	M8
JTT12V4800	12	215	4800	522	240	221	72.5	2300	M8

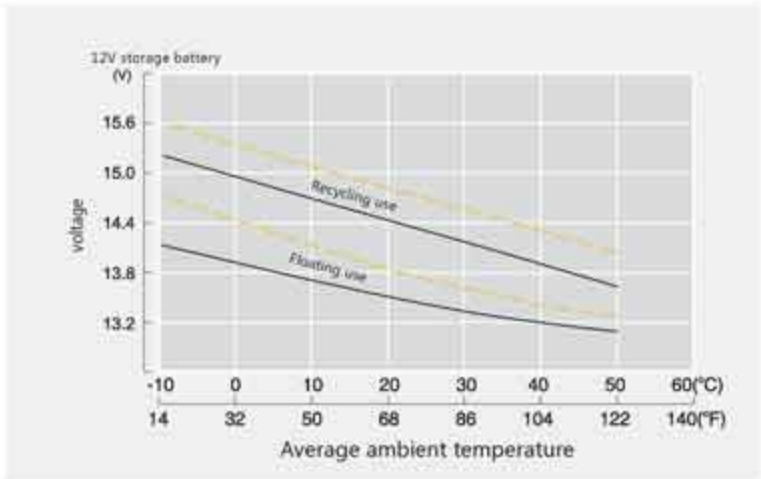
\*Total height is determined by connectors and screws

Battery container, certifications, terminal, and torque



UL94-V0 can be provided if required  
Battery container: UL 94-HB=ABS  
Certifications: Underwriters Laboratories(UL), USA  
TLC, China

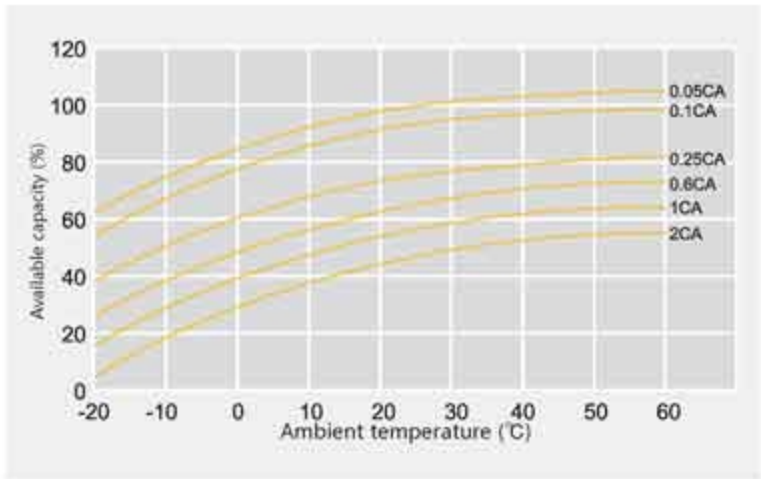
Curve graph of storage battery performance



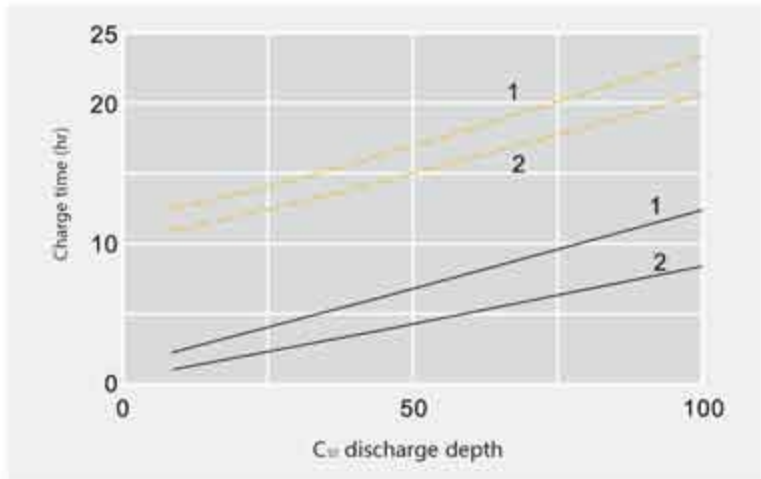
--- Max. allowed voltage during charging

— Min. allowed voltage during charging

The recommended charge voltage is 2.27Vpc at the temperature of 25°C. The charge voltage must be compensated based on different ambient temperature of storage batteries according to the curve.



Available Capacity vs. Temperature



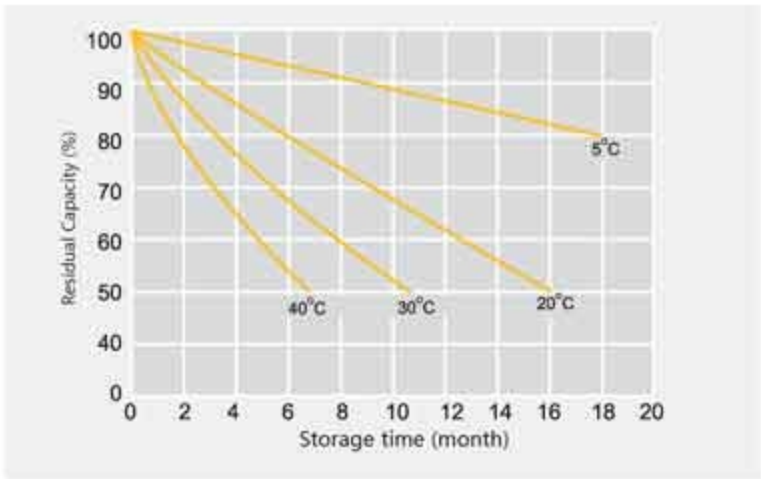
1:0.1 C<sub>10</sub>

2:0.2 C<sub>10</sub>

--- Charge to 100% status

— Charge to 90% status

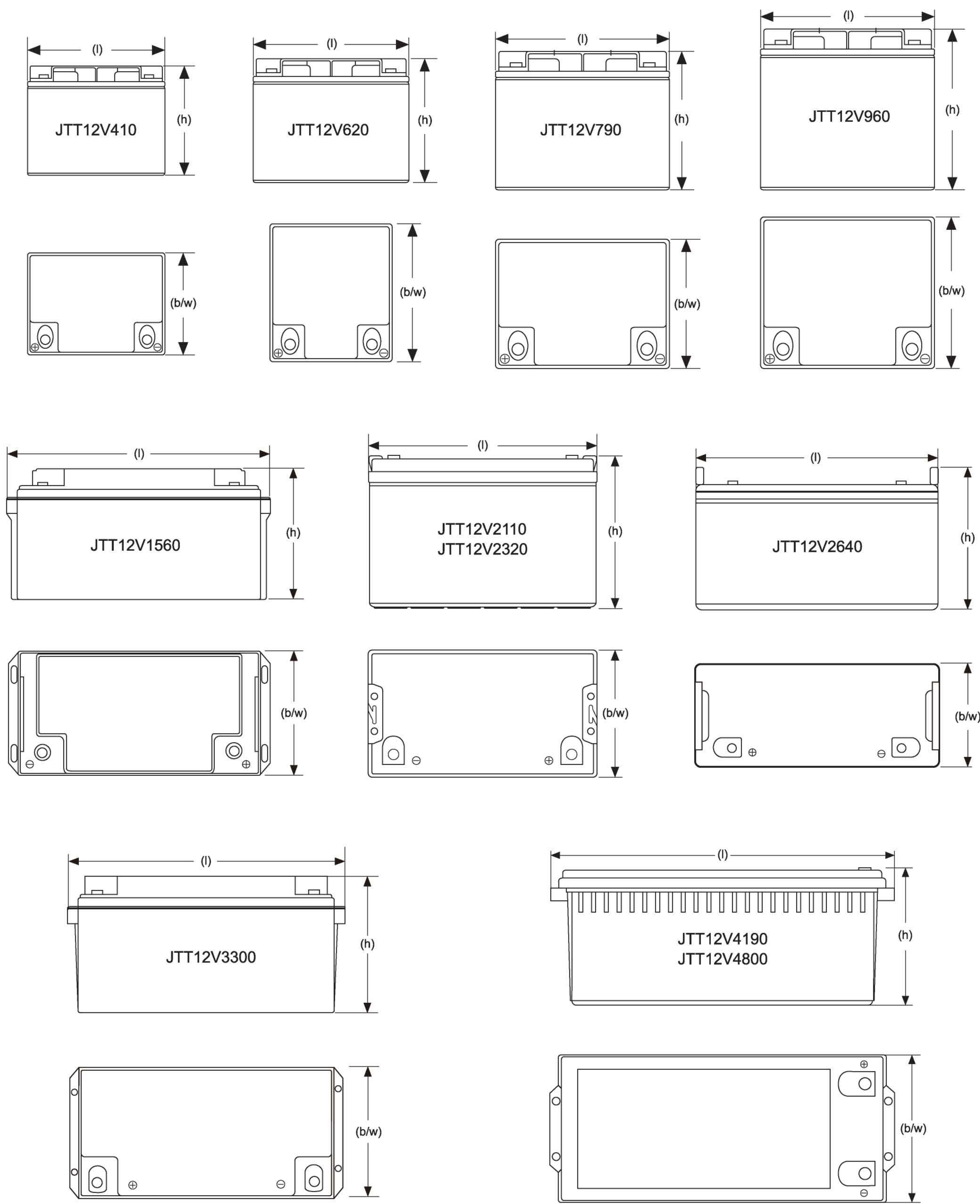
Curve of relations between charging time and initial charge current  
(The charge voltage is 2.27Vpc at the temperature of 25°C)



Self Discharging Rate vs. Temperature



Dimension



Constant current discharge

Model	1.90Vpc-discharge @25°C(A)								
	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	39.8	31.1	25.5	15.4	9.1	3.8	2.6	1.8	1.5
JTT12V620	60.9	47.5	39.0	23.5	13.9	5.8	4.0	2.7	2.2
JTT12V790	77.3	57.3	49.6	29.9	17.7	7.3	5.1	3.4	2.9
JTT12V960	93.7	73.1	60.1	36.2	21.4	8.9	6.2	4.2	3.5
JTT12V1560	127.6	109.9	94.7	58.8	37.4	15.5	10.8	7.3	6.0
JTT12V2110	187.9	152.2	132.1	81.5	48.1	19.9	13.9	9.4	7.8
JTT12V2320	206.5	167.3	145.2	89.6	52.9	21.9	15.3	10.3	8.5
JTT12V2640	226.0	186.7	165.2	108.6	64.2	26.6	18.5	12.5	10.4
JTT12V3300	261.0	222.5	198.9	142.3	84.8	35.4	24.7	16.6	13.8
JTT12V4190	302.6	282.6	252.5	177.9	106.0	44.3	30.9	20.8	17.2
JTT12V4800	348.0	325.0	290.4	204.6	121.9	50.9	35.5	23.9	19.8

Model	1.85Vpc-discharge @25°C(A)								
	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	49.0	35.8	29.0	17.1	9.9	4.0	2.8	1.9	1.6
JTT12V620	74.9	54.8	44.3	26.2	15.1	6.1	4.3	2.9	2.4
JTT12V790	95.0	66.1	56.3	33.2	19.2	7.8	5.4	3.6	3.0
JTT12V960	115.2	84.3	68.2	40.2	23.2	9.4	6.5	4.4	3.7
JTT12V1560	162.2	129.4	107.5	65.4	40.7	16.5	11.4	7.7	6.4
JTT12V2110	235.1	179.2	150.1	90.5	52.3	21.2	14.7	9.9	8.2
JTT12V2320	258.3	196.9	164.9	99.5	57.5	23.3	16.2	10.9	9.0
JTT12V2640	282.7	219.8	187.6	120.7	69.7	28.3	19.6	13.2	10.9
JTT12V3300	334.7	264.5	228.3	159.8	92.2	37.7	26.1	17.6	14.6
JTT12V4190	388.1	335.8	289.9	199.7	115.2	47.1	32.7	22.0	18.3
JTT12V4800	446.3	386.2	333.3	229.6	132.5	54.2	37.6	25.3	21.0

Model	1.80Vpc-discharge @25°C(A)								
	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	55.4	39.8	31.5	18.3	10.4	4.1	2.9	1.9	1.6
JTT12V620	84.7	60.9	48.2	28.0	15.9	6.3	4.4	2.9	2.4
JTT12V790	107.5	77.3	61.2	35.5	20.2	8.0	5.5	3.7	3.1
JTT12V960	130.3	93.7	74.2	43.0	24.5	9.7	6.7	4.5	3.7
JTT12V1560	190.5	146.2	116.9	69.9	42.8	17.0	11.7	7.9	6.6
JTT12V2110	276.2	202.4	163.2	96.8	55.0	21.9	15.1	10.2	8.4
JTT12V2320	303.6	222.5	179.4	106.4	60.5	24.0	16.6	11.2	9.3
JTT12V2640	332.2	248.4	204.0	129.1	73.4	29.2	20.1	13.5	11.2
JTT12V3300	415.3	310.4	255.0	172.0	97.9	38.9	26.8	18.1	15.0
JTT12V4190	481.5	394.2	323.8	215.0	122.3	48.6	33.5	22.6	18.7
JTT12V4800	553.8	453.3	372.4	247.3	140.7	55.9	38.5	25.9	21.5



Constant current discharge

1.75Vpc-discharge @25°C(A)									
Model	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	65.3	43.2	33.0	19.0	10.7	4.2	2.9	2.0	1.6
JTT12V620	99.8	66.0	50.4	29.0	16.4	6.4	4.4	3.0	2.5
JTT12V790	126.7	83.8	64.0	36.8	20.8	8.2	5.6	3.8	3.1
JTT12V960	153.6	101.5	77.6	44.7	25.2	9.9	6.8	4.6	3.8
JTT12V1560	224.6	158.4	122.3	72.6	44.1	17.3	11.9	8.0	6.7
JTT12V2110	325.6	219.3	170.7	100.5	56.7	22.3	15.3	10.3	8.6
JTT12V2320	357.8	241.0	187.6	110.4	62.3	24.5	16.8	11.3	9.4
JTT12V2640	391.6	269.1	213.4	134.0	75.6	29.7	20.4	13.7	11.4
JTT12V3300	489.4	336.3	266.8	178.6	100.8	39.6	27.2	18.3	15.2
JTT12V4190	567.5	427.0	338.8	223.2	126.0	49.6	34.0	22.9	19.0
JTT12V4800	652.6	491.0	389.6	256.7	144.9	57.0	39.1	26.3	21.9

1.60Vpc-discharge @25°C(A)									
Model	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	74.9	46.7	35.5	19.9	11.1	4.3	2.9	2.0	1.6
JTT12V620	114.5	71.4	54.3	30.4	17.0	6.6	4.5	3.0	2.5
JTT12V790	145.3	90.6	68.9	38.6	21.6	8.4	5.7	3.8	3.2
JTT12V960	176.2	109.9	83.5	46.8	26.2	10.1	6.9	4.6	3.8
JTT12V1560	257.6	171.4	131.6	76.0	45.9	17.7	12.0	8.1	6.7
JTT12V2110	373.4	237.3	183.7	105.3	59.0	22.8	15.5	10.4	8.6
JTT12V2320	410.4	260.8	201.8	115.7	64.8	25.1	17.0	11.4	9.5
JTT12V2640	449.2	291.1	229.6	140.3	78.7	30.4	20.6	13.9	11.5
JTT12V3300	561.5	363.9	287.0	187.1	104.9	40.5	27.5	18.5	15.3
JTT12V4190	651.0	462.1	364.4	233.9	131.1	50.6	34.4	23.1	19.1
JTT12V4800	748.6	531.4	419.0	269.0	150.8	58.2	39.6	26.6	22.0

1.70Vpc-discharge @25°C(A)									
Model	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	69.4	44.7	34.0	19.4	10.9	4.3	2.9	2.0	1.6
JTT12V620	106.1	68.4	52.0	29.7	16.7	6.5	4.4	3.0	2.5
JTT12V790	134.6	86.8	66.0	37.7	21.2	8.3	5.6	3.8	3.2
JTT12V960	163.2	105.2	80.0	45.7	25.7	10.0	6.8	4.6	3.8
JTT12V1560	238.6	164.1	126.1	74.2	44.9	17.5	12.0	8.1	6.7
JTT12V2110	345.9	227.2	176.0	102.8	57.7	22.5	15.4	10.4	8.6
JTT12V2320	380.2	249.7	193.4	113.0	63.4	24.7	16.9	11.4	9.4
JTT12V2640	416.1	278.7	220.0	137.0	77.0	30.0	20.5	13.8	11.5
JTT12V3300	520.0	348.4	275.0	182.7	102.6	40.0	27.4	18.4	15.3
JTT12V4190	602.9	442.4	349.2	228.3	128.3	50.0	34.2	23.0	19.1
JTT12V4800	693.4	508.8	401.6	262.6	147.5	57.5	39.3	26.5	22.0

Constant power discharge

1.80Vpc-discharge @ 25°C(W/block)									
Model	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	615.0	452.0	363.0	216.0	123.7	49.6	34.2	23.0	19.1
JTT12V620	940.0	692.0	554.6	330.0	189.2	75.8	52.3	35.2	29.2
JTT12V790	1193.1	878.3	703.9	418.8	240.2	96.2	66.3	44.7	37.1
JTT12V960	1446.2	1064.6	853.2	507.6	291.1	116.6	80.4	54.1	44.9
JTT12V1560	2115.0	1661.0	1345.0	825.0	509.5	204.0	140.7	94.7	78.6
JTT12V2110	3066.2	2299.4	1876.9	1141.8	655.1	262.3	180.9	121.8	101.1
JTT12V2320	3100.2	2527.0	2062.7	1254.8	720.0	288.3	198.8	133.9	111.1
JTT12V2640	3688.0	2821.1	2346.2	1522.4	873.4	349.7	241.2	162.4	134.7
JTT12V3300	4526.9	3526.4	2932.8	2029.9	1164.6	466.3	321.6	216.5	179.7
JTT12V4190	5345.0	4478.0	3724.0	2537.0	1456.0	582.8	402.0	270.7	224.6
JTT12V4800	6146.7	5149.6	4282.7	2917.9	1674.1	670.3	462.3	311.3	258.3

1.65Vpc-discharge @25°C(A)									
Model	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	72.5	45.8	34.8	19.7	11.0	4.3	2.9	2.0	1.6
JTT12V620	110.8	70.0	53.2	30.1	16.9	6.6	4.5	3.0	2.5
JTT12V790	140.7	88.9	67.5	38.2	21.4	8.3	5.7	3.8	3.2
JTT12V960	170.5	107.7	81.8	46.3	26.0	10.1	6.9	4.6	3.8
JTT12V1560	249.4	168.0	129.0	75.3	45.4	17.6	12.0	8.1	6.7
JTT12V2110	361.5	232.6	180.1	104.2	58.4	22.7	15.4	10.4	8.6
JTT12V2320	397.2	255.7	197.9	114.5	64.2	24.9	17.0	11.4	9.5
JTT12V2640	434.8	285.4	225.1	139.0	77.9	30.2	20.6	13.9	11.5
JTT12V3300	543.4	356.7	281.3	185.2	103.8	40.3	27.5	18.5	15.3
JTT12V4190	630.0	453.0	357.2	231.5	129.8	50.4	34.3	23.1	19.1
JTT12V4800	724.6	521.0	410.8	266.2	149.3	57.9	39.5	26.5	22.0

1.75Vpc-discharge @ 25°C(W/block)									
Model	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	711.0	490.0	379.0	224.0	127.4	50.5	34.7	23.4	19.4
JTT12V620	1088.0	749.7	580.0	342.5	194.9	77.3	53.0	35.7	29.6
JTT12V790	1381.0	951.6	736.2	434.7	247.4	98.1	67.3	45.3	37.6
JTT12V960	1673.9	1153.4	892.4	526.9	299.9	118.9	81.6	54.9	45.6
JTT12V1560	2448.0	1799.0	1407.0	856.0	524.7	208.1	142.8	96.2	79.8
JTT12V2110	3548.2	2490.8	1963.6	1185.4	674.6	267.6	183.6	123.6	102.6
JTT12V2320	3587.5	2737.4	2158.0	1302.8	741.4	294.1	201.8	135.8	112.8
JTT12V2640	4268.0	3055.9	2454.5	1580.5	899.5	356.7	244.8	164.8	136.8
JTT12V3300	5246.9	3819.9	3068.1	2107.4	1199.3	475.7	326.4	219.8	182.4
JTT12V4190	6186.0	4851.0	3896.0	2634.0	1499.0	594.6	408.0	274.7	228.0
JTT12V4800	7113.3	5578.2	4480.4	3029.3	1724.0	683.8	469.2	315.9	262.2



1.70Vpc-discharge @ 25°C(W/block)									
Model	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	756.0	508.0	391.0	229.0	129.7	51.0	34.9	23.5	19.5
JTT12V620	1156.0	776.7	598.0	350.3	198.4	78.0	53.3	35.9	29.8
JTT12V790	1467.3	985.8	759.0	444.7	251.8	99.0	67.7	45.6	37.8
JTT12V960	1778.5	1194.9	920.0	539.0	305.2	120.0	82.1	55.3	45.8
JTT12V1560	2601.0	1864.0	1450.0	876.0	534.2	210.0	143.6	96.7	80.2
JTT12V2110	3770.0	2580.9	2024.0	1212.4	686.8	270.0	184.6	124.3	103.1
JTT12V2320	3811.8	2836.4	2224.4	1332.4	754.8	296.7	202.9	136.6	113.3
JTT12V2640	4534.6	3166.3	2530.0	1616.5	915.8	360.0	246.2	165.7	137.5
JTT12V3300	5574.6	3957.9	3162.5	2155.4	1221.0	450.0	328.2	221.0	183.3
JTT12V4190	6572.0	5026.0	4016.0	2694.0	1526.0	600.0	410.3	276.2	229.2
JTT12V4800	7557.0	5779.8	4618.3	3098.3	1755.2	690.0	471.8	317.7	263.5

1.65Vpc-discharge @ 25°C(W/block)									
Model	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	790.0	520.0	400.0	232.0	131.3	51.4	35.0	23.5	19.5
JTT12V620	1208.0	795.3	611.8	355.2	200.8	78.5	53.5	36.0	29.9
JTT12V790	1533.2	1009.4	776.5	450.9	254.9	99.7	67.9	45.7	37.9
JTT12V960	1858.4	1223.5	941.2	546.5	308.9	120.8	82.3	55.4	46.0
JTT12V1560	2718.0	1909.0	1484.0	888.0	540.6	211.5	144.1	96.9	80.4
JTT12V2110	3939.6	2642.7	2070.5	1229.2	695.1	271.9	185.3	124.6	103.4
JTT12V2320	3983.3	2904.3	2275.5	1350.9	763.9	298.8	203.6	136.9	113.6
JTT12V2640	4738.6	3242.1	2588.2	1638.9	926.7	362.6	247.0	166.2	137.8
JTT12V3300	5825.4	4052.6	3235.3	2185.2	1235.7	483.4	329.4	221.5	183.8
JTT12V4190	6868.0	5146.0	4108.0	2731.0	1545.0	604.3	411.7	276.9	229.7
JTT12V4800	7897.7	5918.1	4724.5	3141.1	1776.3	694.9	473.5	318.5	264.2

1.60Vpc-discharge @ 25°C(W/block)									
Model	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	8 hr	10 hr
JTT12V410	816.0	530.0	408.0	235.0	132.6	51.7	35.1	23.6	19.5
JTT12V620	1248.0	811.2	624.0	358.8	202.8	79.0	53.7	36.0	29.9
JTT12V790	1584.0	1029.6	792.0	455.4	257.4	100.3	68.1	45.7	37.9
JTT12V960	1920.0	1248.0	960.0	552.0	312.0	121.6	82.6	55.4	46.0
JTT12V1560	2808.0	1947.0	1513.0	897.0	546.0	212.7	144.5	97.0	80.4
JTT12V2110	4070.4	2695.7	2112.0	1242.0	702.0	273.5	185.8	124.7	103.4
JTT12V2320	4115.5	2962.6	2321.1	1365.0	771.5	300.6	204.2	137.0	113.6
JTT12V2640	4896.0	3307.2	2640.0	1656.0	936.0	364.6	247.7	166.3	137.8
JTT12V3300	6018.9	4134.0	3300.0	2208.0	1248.0	486.2	330.3	221.8	183.8
JTT12V4190	7096.0	5250.0	4190.0	2760.0	1560.0	607.7	412.8	277.2	229.7
JTT12V4800	8160.0	6037.0	4819.0	3174.0	1794.0	698.9	474.8	318.8	264.0