

Powerfit™

Industrial Batteries—Network Power

Powerfit PJ2V series

AGM storage battery



GNB®
INDUSTRIAL POWER
A Division of Exide Technologies








Industrial Battery – Network Power

Powerfit

PJ2V series

A perfect combination of high integrity and ultra-energy storage

Product information

 Valve Regulated Lead Acid Batteries	 Grid Plate	 Nominal capacity 100-3000Ah(C ₁₀)	 Recyclable
 Single Cell	 Maintenance free	 Design life 20 years @ 20°C	

Product characteristics

- Specially designed for long-life operation, with the design life of 15 years at the ambient temperature of 25°C
- Great reliability
- Simple modular backup power source for UPS, telecom, and public facilities
- No need to add liquid during the service life
- Nominal capacity 100-3000Ah@ C₁₀
- Conforms to BS 6290-4 and IEC 60896-2
- Ultra-low gas emission, with internal gas recombination efficiency exceeding 99%
- Ultra-low self discharge(lower than 3% each month at 20°C)
- Container materials conform to UL94-HB, with UL94-V0 materials available
- Excellent deep discharge performance and conform to DIN43 539 T5
- No restriction for land and air transportation, and conform to IATA/ICAO A67
- Recyclable



Powerfit™

Ultra-energy network power

Application

Long life and high reliability make PJ2V Series ideal for challenging and critical demands

- Telecommunication
- UPS
- Railway systems and subsystems
- Marine
- Power plant, switchgear and control
- Hospital and medical equipments
- Solar, wind, and tidal power generation systems
- Backup power of drill platform
- Fire detection and suppression system
- Fire alarm and security system



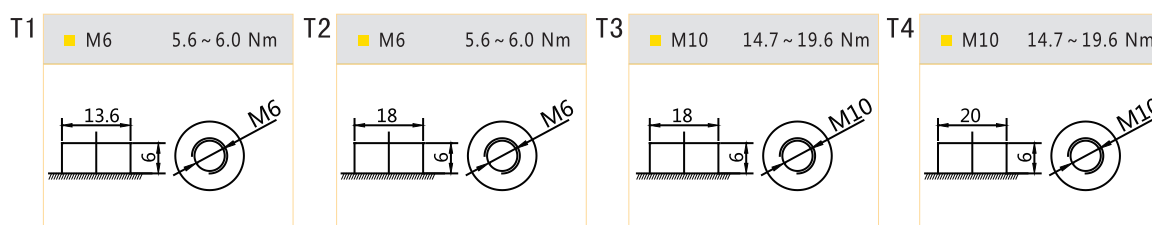
Powerfit PJ2V series

Technical characteristics

Model	Nominal voltage (V)	Nominal capacity C ₁₀ (25°C, 1.80Vpc) (Ah)	Max. Dimension (mm)				Weight (Kg) (approximate)	Terminal Mode
			Length (l)	Width (b/w)	Height (h1)	Height (h2)		
PJ2V100	2	100	174	75	210	223	6.9	T1 (M6)
PJ2V150	2	150	170	98	205	212	8.5	T2 (M6)
PJ2V200	2	200	170	106	330	345	13.5	T3 (M10)
PJ2V300	2	300	170	150	330	345	19.5	T3 (M10)
PJ2V400	2	400	196	171	330	345	26	T3 (M10)
PJ2V500	2	500	241	171	330	345	32	T3 (M10)
PJ2V600	2	600	285	171	330	345	38.5	T3 (M10)
PJ2V800	2	800	383	171	330	345	51	T3 (M10)
PJ2V1000	2	1000	471	171	330	345	63	T3 (M10)
PJ2V1500	2	1500	476	337	330	345	100	T4 (M10)
PJ2V2000	2	2000	476	337	330	345	127	T4 (M10)
PJ2V3000	2	3000	696	340	330	345	192.5	T4 (M10)

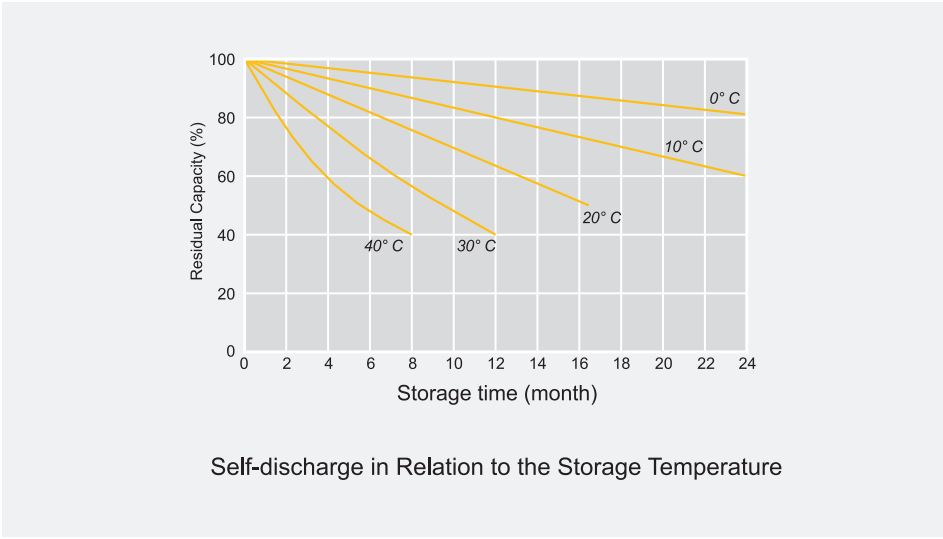
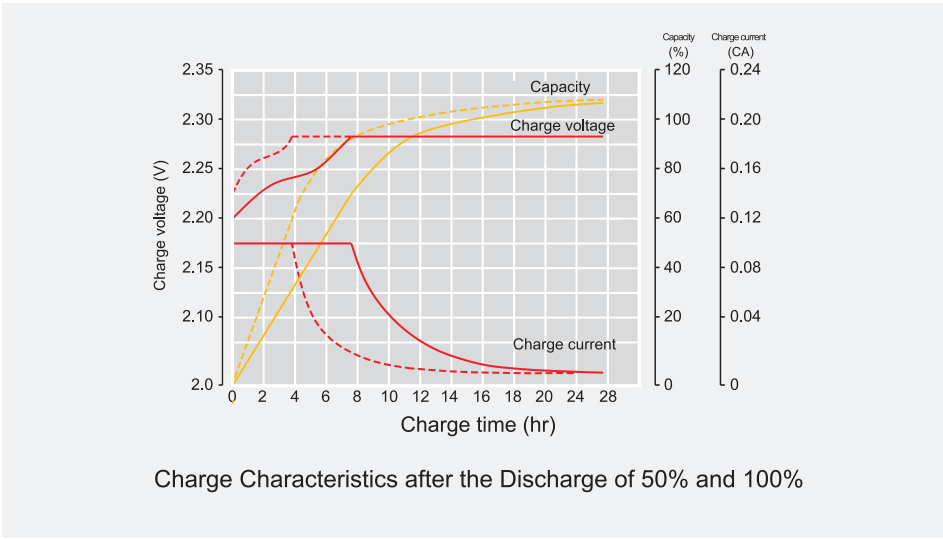
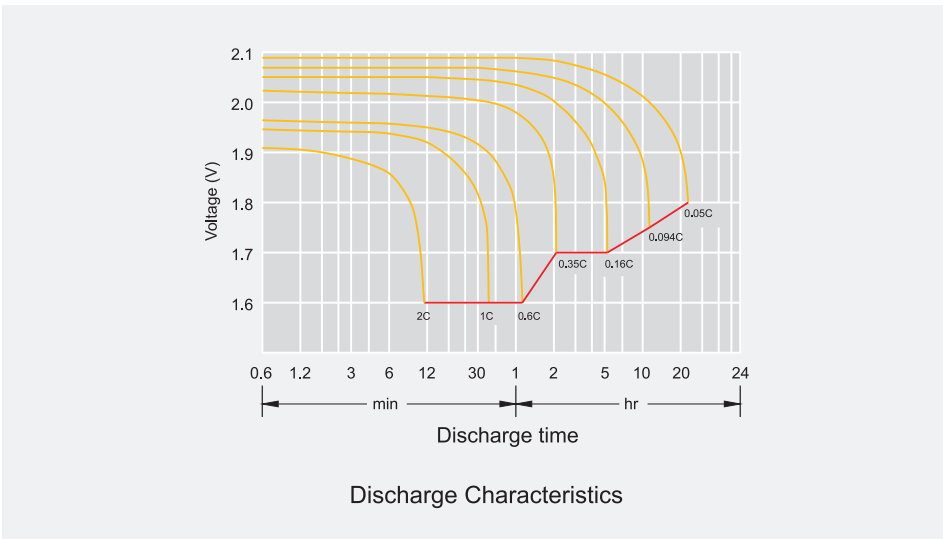
Battery container, certifications, terminal, and torque

Terminal mode; unit: mm



Battery container: UL94-HB =ABS
 UL94-V0 (optional)
 Certifications: Underwriters Laboratories(UL), USA
 TLC, China

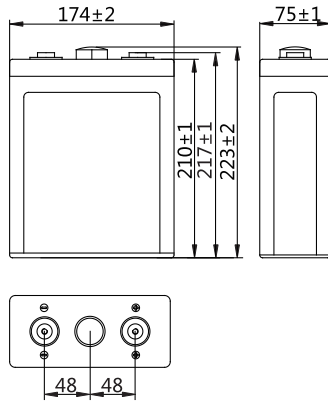
Technical Curve and Data



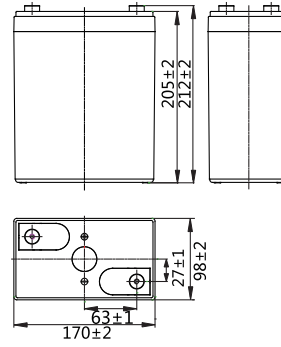
Powerfit PJ2V series

Dimension

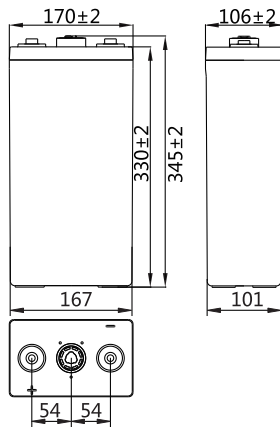
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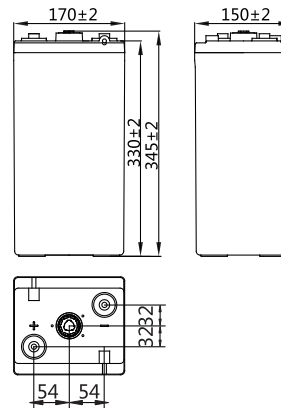
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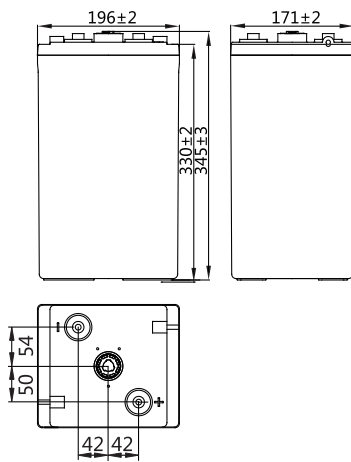
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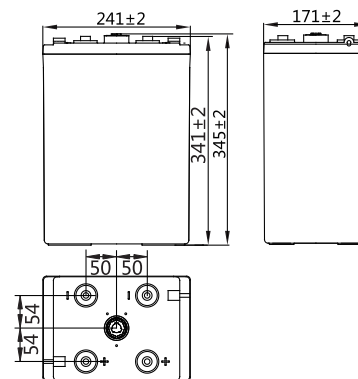
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PJ2V400



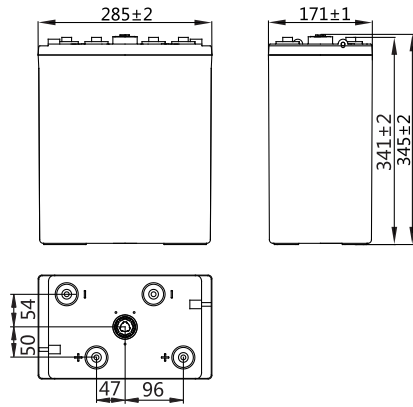
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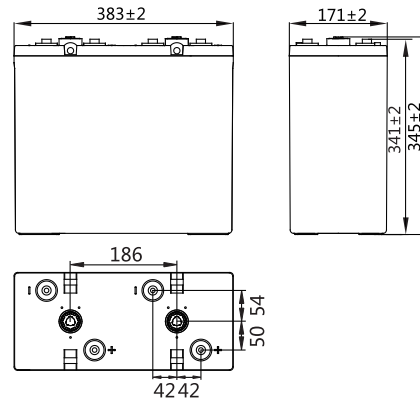
Unit: mm

Dimension

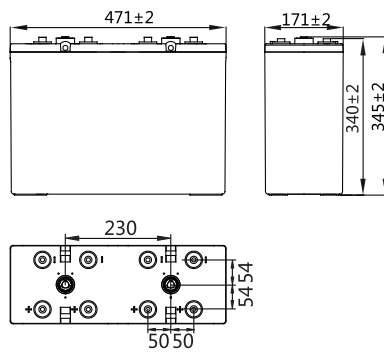
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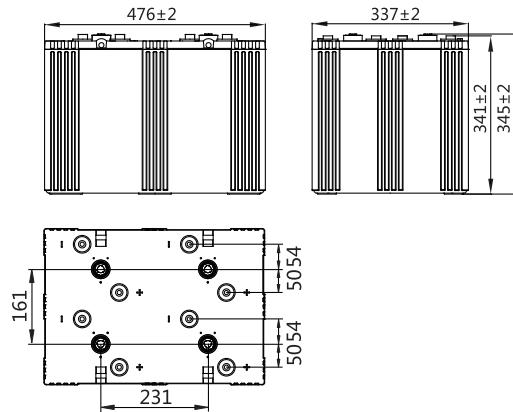
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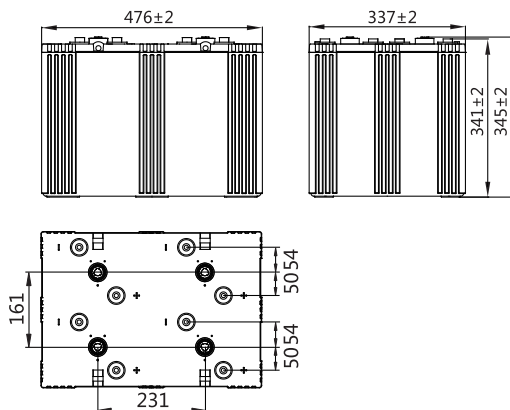
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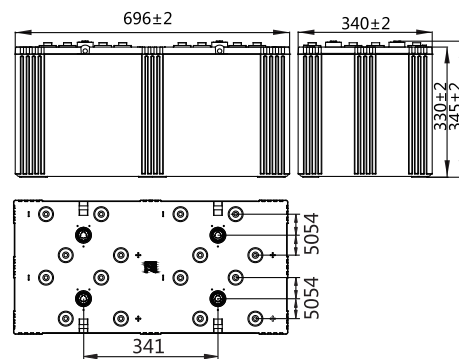
PJ2V1500



PJ2V2000



PJ2V3000



Unit: mm

Powerfit

PJ2V series

Constant current discharge

1.85Vpc-discharge @25°C (A)							
Model	15 min	30 min	45min	1 hr	3 hr	5 hr	10 hr
PJ2V100	103	69.5	59.3	48.3	21.5	16.1	9.5
PJ2V150	150	104	87	72.7	32.2	23.9	14.5
PJ2V200	198	138	118	97	46.3	32.1	19.3
PJ2V300	298	228	174	146	71.4	48	29
PJ2V400	395	297	234	194	92.6	63.8	38.7
PJ2V500	480	353	279	242	116	79.8	48.4
PJ2V600	598	431	338	291	144	97.4	58
PJ2V800	861	579	469	388	185	128	77.4
PJ2V1000	948	742	575	491	231	160	96.7
PJ2V1500	1379	1045	833	727	347	241	145
PJ2V2000	1843	1471	1176	1028	463	319	194
PJ2V3000	2717	2084	1692	1495	694	485	290

1.80Vpc-discharge @25°C (A)							
Model	15 min	30 min	45min	1 hr	3 hr	5 hr	10 hr
PJ2V100	113	76.7	54.9	52.3	23.2	17	10
PJ2V150	166	114	95.8	78.7	34.6	25.4	15
PJ2V200	219	156	127	110	51.1	35.2	20.3
PJ2V300	330	249	193	165	76.7	52.7	30.5
PJ2V400	437	326	256	220	102	70.2	40.7
PJ2V500	537	390	314	276	128	87.5	50.9
PJ2V600	660	473	378	331	154	105	61
PJ2V800	953	635	511	440	204	138	80.9
PJ2V1000	1073	814	627	541	255	173	101
PJ2V1500	1610	1170	941	823	383	259	151
PJ2V2000	2147	1615	1255	1100	511	346	203
PJ2V3000	3220	2340	1882	1653	767	521	305



Constant current discharge

1.75Vpc-discharge @25°C (A)							
Model	15 min	30 min	45min	1 hr	3 hr	5 hr	10 hr
PJ2V100	119	81.5	69	54.9	24	17.7	10.1
PJ2V150	177	120	102	82.7	36	26.4	15.1
PJ2V200	249	169	135	117	53.2	36.1	21
PJ2V300	374	263	202	175	79.8	54	31.5
PJ2V400	499	346	270	234	106	71.9	42
PJ2V500	623	423	336	292	133	89.7	52.4
PJ2V600	748	508	403	350	160	107	62.6
PJ2V800	1015	677	540	467	213	142	82.7
PJ2V1000	1247	862	672	584	266	178	104
PJ2V1500	1870	1269	1007	866	399	265	155
PJ2V2000	2494	1711	1343	1159	532	355	207
PJ2V3000	3741	2538	2015	1753	798	535	312

1.70Vpc-discharge @25°C (A)							
Model	15 min	30 min	45min	1 hr	3 hr	5 hr	10 hr
PJ2V100	127	86.4	72	57.6	25.2	18.2	10.2
PJ2V150	187	127	106	86.6	37.3	27.3	15.3
PJ2V200	281	190	148	124	56.1	36.7	21.4
PJ2V300	421	286	222	186	84.2	54.9	32.1
PJ2V400	562	381	296	254	112	76.2	43.1
PJ2V500	702	476	370	309	140	91.2	53.4
PJ2V600	843	571	437	370	169	109	63.8
PJ2V800	1124	761	592	488	223	144	84.3
PJ2V1000	1405	952	740	612	280	181	106
PJ2V1500	2107	1427	1111	915	419	270	158
PJ2V2000	2809	1903	1481	1224	560	361	211
PJ2V3000	4213	2855	2221	1842	842	544	318

Powerfit

PJ2V series

Constant power discharge

1.85Vpc-discharge @25°C (W/ cell)							
Model	15 min	30 min	45min	1 hr	3 hr	5 hr	10 hr
PJ2V100	171	135	105	90.2	44.4	34	18.4
PJ2V150	249	197	154	135	66.1	50.3	27.6
PJ2V200	354	273	247	180	88.2	65.8	36.8
PJ2V300	541	432	365	291	145	97.5	55.2
PJ2V400	630	497	435	361	176	123	73.6
PJ2V500	788	625	538	451	220	154	92.1
PJ2V600	945	756	631	541	269	196	111
PJ2V800	1295	1008	810	721	353	246	147
PJ2V1000	1575	1233	1012	902	444	316	184
PJ2V1500	2362	1850	1518	1353	661	465	276
PJ2V2000	3150	2466	2024	1804	882	622	368
PJ2V3000	4725	3699	3037	2705	1323	922	552

1.80Vpc-discharge @25°C (W/ cell)							
Model	15 min	30 min	45min	1 hr	3 hr	5 hr	10 hr
PJ2V100	192	152	116	97.9	47.2	35.7	19.2
PJ2V150	283	221	171	145	69.3	52.7	28.5
PJ2V200	391	296	258	196	92.6	69.5	38.5
PJ2V300	595	470	390	295	152	102	57
PJ2V400	745	552	484	391	183	129	76
PJ2V500	931	694	592	489	231	161	95
PJ2V600	1117	838	694	585	300	205	114
PJ2V800	1490	1118	886	773	370	263	152
PJ2V1000	1862	1368	1107	969	463	325	190
PJ2V1500	2793	2052	1661	1448	694	482	285
PJ2V2000	3724	2736	2215	1937	926	643	380
PJ2V3000	4506	4104	3323	2833	1389	964	570



Constant power discharge

1.75Vpc-discharge @25°C (W/ cell)							
Model	15 min	30 min	45min	1 hr	3 hr	5 hr	10 hr
PJ2V100	205	160	123	104	48.7	33.6	20.1
PJ2V150	306	237	182		72.4	54	30.3
PJ2V200	433	311	266	207	97	71.3	39.7
PJ2V300	649	495	406	311	157	105	60.7
PJ2V400	866	594	516	413	193	133	78.3
PJ2V500	1082	742	628	516	241	166	97.9
PJ2V600	1299	894	737	616	320	208	117
PJ2V800	1731	1191	949	814	386	277	156
PJ2V1000	2164	1484	1186	1020	483	332	196
PJ2V1500	3246	2226	1779	1524	724	497	294
PJ2V2000	4328	2968	2373	2039	966	662	392
PJ2V3000	6492	4452	3559	3069	1448	994	587

1.70Vpc-discharge @25°C (W/ cell)							
Model	15 min	30 min	45min	1 hr	3 hr	5 hr	10 hr
PJ2V100	241	168	130	111	50.1	37	20.2
PJ2V150	322	250	192	162	74.2	55.1	30.3
PJ2V200	482	330	275	219	100	72.8	40.8
PJ2V300	722	521	421	339	162	108	60.5
PJ2V400	963	659	616	445	200	138	80.6
PJ2V500	1204	824	664	546	250	173	103
PJ2V600	1444	988	779	653	330	211	122
PJ2V800	1926	1318	1032	863	402	283	164
PJ2V1000	2407	1647	1290	1081	501	345	206
PJ2V1500	3611	2471	1935	1616	751	518	308
PJ2V2000	4815	3295	2580	2162	1002	690	413
PJ2V3000	7222	4942	3870	3254	1502	1035	625

Powerfit™

The Powerfit™ maintenance-free valve regulated lead acid batteries adopt advanced AGM technology, and are 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.



GNB® INDUSTRIAL POWER

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