



POTENZA[®]
BATTERIES

**ULTIMATE
ENERGY**

Japanese Technology & Standards



TECHNICAL SPECIFICATIONS

*Ultimate Performance in Every Condition
Powered by Japanese Technology
Built to Japanese Standards*

12V

BATTERY TYPE	SIZE	PLATE	CCA	CAPACITY 20 HRS (AH)	DIMENSIONS			TOTAL HEIGHT	WEIGHT/BTY KGS (±5%) (INCLUDING ACID)
					LENGTH	WIDTH	HEIGHT		

MAINTENANCE FREE

SEALED MF (JIS)

P-36B20L	B20	9	300	30	197	129	203		9.9
P-38B20L	B20	11	350	38	197	129	203		11.0
P-46B24L	B24	12	380	45	238	129	203		12.8
P-46B24L	B24	13	400	45	238	129	203		13.1
P-65D31L	D31	13	500	70	306	173	204		21.2
P-95D31L	D31	15	650	80	306	173	204		23.2

DOUBLE LID MF (JIS)

P-38B20L	B24	11	360	38	197	129	203		11.0
P-55B24L	B24	13	410	45	238	129	203		13.0
P-48D26L	D26	9	440	50	260	173	204		16.8
P-55D26L	D26	11	470	60	260	173	204		18.5
P-80D26L	D26	13	600	70	260	173	204		20.4
P-95D31L	D31	15	670	80	306	173	204		23.2

MF (DIN)

P-54459	LN1	10	410	45	206	174	189		13.3
P-56045	LN2	14	500	60	241	175	189		17.2
P-54011	LN0		350	40	175	175	190		10.6
P-57220	LN3		620	72	278	175	190		17.2

HYBRID BATTERIES

P-ZL1H	ZL	9		30	197	129	203		9.5
P-ZL2H	ZL	11		38	197	129	203		10.5
P-N40H	N40	13		45	238	129	203		13.2
P-N70H	N70	15		80	306	173	204		23.1

BATTERY TYPE	PLATE	CAPACITY 20 HRS (AH)	DIMENSIONS			TOTAL HEIGHT	WEIGHT/BTY KGS (±5%) (INCLUDING ACID)
			LENGTH	WIDTH	HEIGHT		
DRY CHARGED							
B20							
P-B20S	5	20	197	129	203	227	5.0
P-B20C	7	24	197	129	203	227	6.0
P-B20G	9	30	197	129	203	227	7.0
P-B20L	9	35	197	129	203	227	7.8
P-B20X	11	38	197	129	203	227	8.0
B24							
P-B24C	11	40	238	129	203	227	8.1
P-B24N	11	45	238	129	203	227	9.5
P-B24G	13	45	238	129	203	227	9.5
N50							
P-N50G	9	50	260	173	204	225	10.1
P-N50D	11	60	260	173	204	225	12.0
P-N50X	13	70	260	173	204	225	13.5
N70							
P-N70W	9	50	306	173	204	225	10.1
P-N70G	11	60	306	173	204	225	12.0
P-N70X	13	75	306	173	204	225	14.0
P-N70L	15	80	306	173	204	225	16.0
6FT							
P-6FTB	15	85	363	170	202	227	16.5
P-6FTL	17	100	363	170	202	227	18.5
N100							
P-N100G	15	85	410	176	213	234	16.5
P-N100X	17	100	410	176	213	234	18.5
P-N100L	19	105	410	176	213	234	20.0
N120							
P-N100S	19	105	505	182	213	257	21.0
P-N120G	21	120	505	182	213	257	23.0
P-N120L	23	140	505	182	213	257	25.0
N150							
P-N150S	21	135	508	222	213	257	26.0
P-N150L	23	150	508	222	213	257	28.5
P-N150F	27	175	508	222	213	257	33.0
N200							
P-N200S	31	200	521	278	220	270	38.0
P-N200F	33	260	521	278	220	270	40.5

12V

BATTERY TYPE	PLATE	TYPE	CAPACITY 20 HRS (AH)	DIMENSIONS			TOTAL HEIGHT	WEIGHT/BTY KGS (±5%) (INCLUDING ACID)
				LENGTH	WIDTH	HEIGHT		

DEEP CYCLE (TUBULAR)

TUBULAR

P-TBE	5		185	505	192	393		56
P-TBF	7		230	505	192	393		62
P-TBG	9		280	505	192	393		72

FLAT PLATE

P-FPT	5		90	505	192	393		50
P-FPU	7		140	505	192	393		55
P-FPV	9		180	505	192	393		60
P-FPW	11		210	505	192	393		66
P-FPN1	11		85	410	176	213		28.3
P-FPN2	15		115	505	182	213		38.1
P-FPN3	23		185	521	278	220		59.1

MAINTENANCE FREE

EPZ-7.0		VRLA-MF	7	151	65	93.5		19.7
EPZ-100		VRLA-MF	100	331	173	213		28.5

51.2V

BATTERY TYPE	CELL TYPE	CAPACITY	DIMENSIONS			WEIGHT/BTY KGS (±5%) (INCLUDING ACID)	APPLICATION
			LENGTH	WIDTH	HEIGHT		

LITHIUM-ION

LI - ION	Prismatic	100	500	442	130.5	42	Energy storage for household
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12V

BATTERY TYPE	PLATE	TYPE	CAPACITY 20 HRS (AH)	DIMENSIONS			TOTAL HEIGHT	WEIGHT/BTY KGS (±5%) (INCLUDING ACID)
				LENGTH	WIDTH	HEIGHT		

MOTORCYCLE

DRY CHARGED

Max Force	3	DC	2.5	81	81.7	106	1.0
Max Force	7	DC	5	130	60	130	2.0
Max Force	9	DC	7	160	60	130	2.5

MAINTENANCE FREE

Apex 4		VRLA	2.5	80	70	105	1.04
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12V

VRLA DEEP CYCLE SERIES

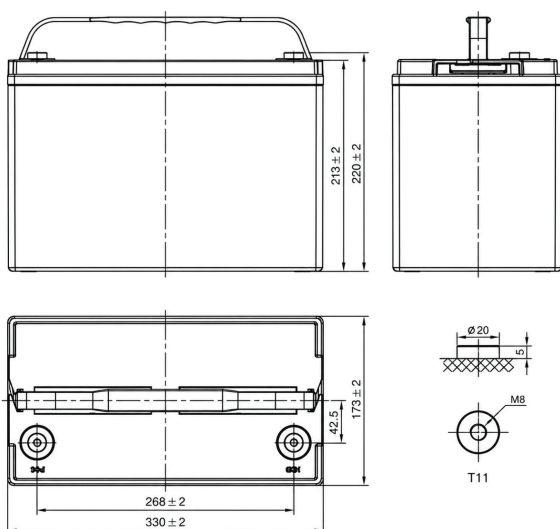
EPZ-100

12V 100Ah (10HR) Maintenance Free



ITEM	SPECIFICATIONS
Rated voltage	12V
Nominal capacity (25°C)	C10, 1.80V/cell — 100Ah
Length	330mm (13.0 in)
Width	173mm (6.8 in)
Container height	213mm (8.39 in)
Total height	220mm (8.66 in)
Approx weight	28.5kg (62.8 lbs)
Terminal	T11 (M8)
Container material	ABS (UL94 HB or V-0 optional)
Short-circuit current	2000A
Internal resistance (25°C)	Approx 4.9 mOhm (fully charged)

DIMENSIONS (mm)



SAFETY INSTRUCTIONS

Avoid shorting terminals

Do not store or use the battery upside down

Do not charge in a gas tight space

Keep sparks and flames away

DISCHARGE TABLE

Constant current discharge (Amperes) at 25°C / 77°F

F.V/Time	5m	10m	15m	20m	30m	45m	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	195.7	139.2	125.7	98.9	88.4	64.6	54.7	39.7	33.4	24.5	19.2	16.7	14.7	11.3	9.36	4.96
1.80V/cell	222.6	158.0	142.4	111.8	96.2	68.5	56.7	41.0	34.4	26.6	20.5	17.5	15.8	11.9	10.0	5.15
1.75V/cell	241.8	171.3	154.2	120.7	98.2	71.0	59.5	43.1	36.3	27.1	20.9	17.8	15.9	11.9	10.1	5.20
1.70V/cell	258.5	182.7	163.8	127.9	100.2	72.4	60.7	44.0	37.0	27.6	21.2	18.1	16.0	12.1	10.2	5.25
1.67V/cell	267.5	188.5	168.6	131.4	101.6	73.4	61.6	44.6	37.5	27.9	21.6	18.5	16.1	12.3	10.3	5.31
1.60V/cell	277.0	194.9	173.8	134.8	103.1	74.5	62.5	45.3	38.1	28.1	21.8	18.8	16.2	12.5	10.4	5.38

Constant power discharge (Watts/cell) at 25°C / 77°F

F.V/Time	5m	10m	15m	20m	30m	45m	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	365.6	261.8	238.0	188.0	168.9	124.3	105.9	77.0	64.9	47.8	37.7	32.8	29.0	22.4	18.6	9.89
1.80V/cell	408.9	292.9	266.2	210.3	182.4	130.8	109.1	79.2	66.7	51.7	40.1	34.4	31.1	23.5	19.5	10.2
1.75V/cell	436.5	312.6	284.1	224.5	184.7	134.7	114.0	82.9	69.9	52.5	40.7	34.9	31.2	23.6	19.6	10.3
1.70V/cell	458.8	328.6	298.7	236.0	186.8	136.5	115.6	84.1	71.0	53.3	41.2	35.3	31.3	23.9	19.8	10.4
1.67V/cell	466.3	334.0	303.6	239.8	188.2	137.7	116.7	84.9	71.8	53.6	41.7	35.9	31.4	24.2	20.0	10.5
1.60V/cell	472.8	338.7	307.8	243.2	189.0	138.4	117.5	85.6	72.3	53.8	42.0	36.3	31.5	24.5	20.2	10.6

EPZ-100

12V 100Ah (10HR) Maintenance Free

APPLICATIONS

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

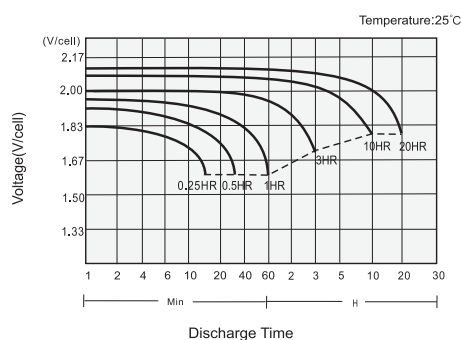
GENERAL FEATURES

- 10 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

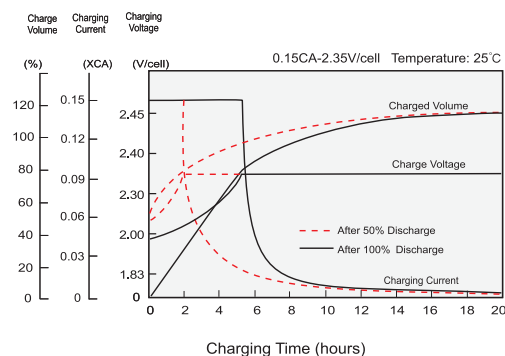
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

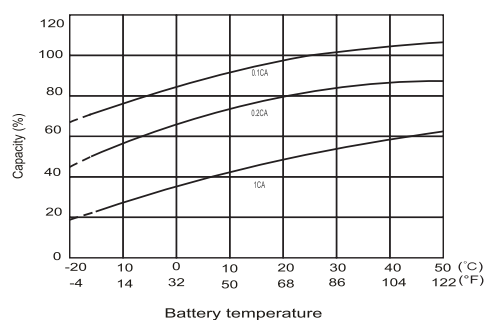
Discharge Characteristics



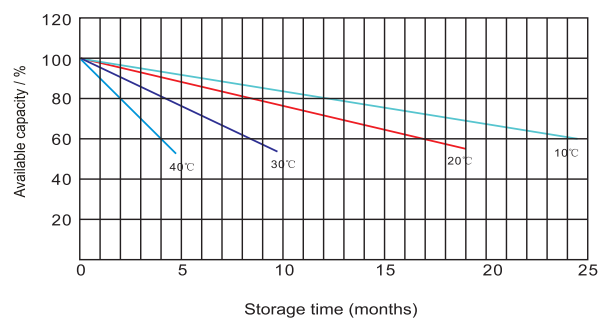
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



12V

VRLA DEEP CYCLE SERIES

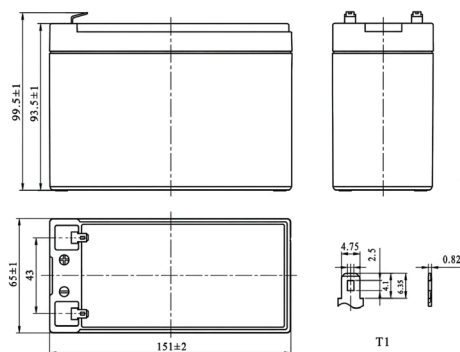
EPZ-7.0

12V 7Ah (20HR) Maintenance Free



ITEM	SPECIFICATIONS
Rated voltage	12V
Nominal capacity (25°C)	C ₂₀ 1.75V/cell — 7.0Ah
Length	151mm (5.94 in)
Width	65mm (2.56 in)
Container height	93.5mm (3.68 in)
Total height	99.5mm (3.92 in)
Approx weight	1.97kg (4.34 lbs)
Terminal	T1/T2
Container material	ABS (UL94 HB or V-0 optional)
Short-circuit current	196A
Internal resistance (25°C)	Approx 33 mΩ (fully charged)

DIMENSIONS (mm)



SAFETY INSTRUCTIONS

Avoid shorting terminals

Do not store or use the battery upside down

Do not charge in a gas tight terminal

Keep sparks and flames away

DISCHARGE TABLE

Constant current discharge (Amperes) at 25°C / 77°F

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	17.0	12.5	9.90	8.10	6.12	4.64	3.91	2.90	2.38	1.72	1.36	1.16	0.990	0.780	0.637	0.343
1.80V/cell	18.5	13.2	10.3	8.35	6.28	4.73	3.99	2.95	2.41	1.74	1.38	1.18	1.01	0.790	0.644	0.347
1.75V/cell	19.9	13.8	10.7	8.60	6.43	4.83	4.06	3.00	2.45	1.77	1.40	1.19	1.02	0.800	0.653	0.350
1.70V/cell	21.4	14.4	11.1	8.86	6.57	4.92	4.13	3.05	2.49	1.79	1.42	1.21	1.03	0.809	0.660	0.354
1.67V/cell	22.3	14.8	11.3	9.01	6.67	4.98	4.17	3.08	2.51	1.81	1.43	1.22	1.24	0.816	0.665	0.356
1.60V/cell	24.3	15.7	11.8	9.40	6.87	5.11	4.27	3.14	2.56	1.84	1.46	1.24	1.06	0.829	0.675	0.361

Constant power discharge (Watts/cell) at 25°C / 77°F

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	32.3	23.9	19.1	15.6	11.8	9.01	7.61	5.67	4.65	3.37	2.69	2.29	1.96	1.55	1.27	0.686
1.80V/cell	34.8	25.0	19.7	16.0	12.1	9.15	7.73	5.74	4.71	3.42	2.72	2.32	1.99	1.57	1.28	0.693
1.75V/cell	37.4	26.1	20.3	16.4	12.3	9.30	7.84	5.82	4.77	3.46	2.76	2.35	2.01	1.58	1.29	0.700
1.70V/cell	39.9	27.2	20.9	16.8	12.5	9.40	7.95	5.90	4.84	3.50	2.79	2.37	2.03	1.60	1.31	0.707
1.67V/cell	41.4	27.8	21.3	17.1	12.7	9.50	8.02	5.95	4.87	3.53	2.81	2.39	2.05	1.61	1.32	0.712
1.60V/cell	44.7	29.2	22.1	17.6	13.0	9.70	8.17	6.05	4.95	3.59	2.85	2.43	2.08	1.64	1.34	0.722

EPZ-7

12V 7Ah (20HR) Maintenance Free

APPLICATIONS

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

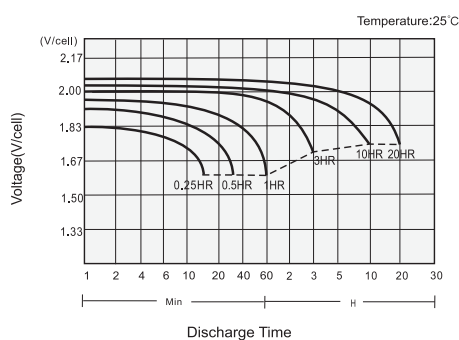
GENERAL FEATURES

- 5 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

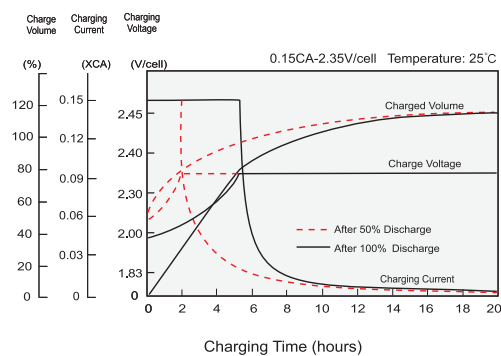
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

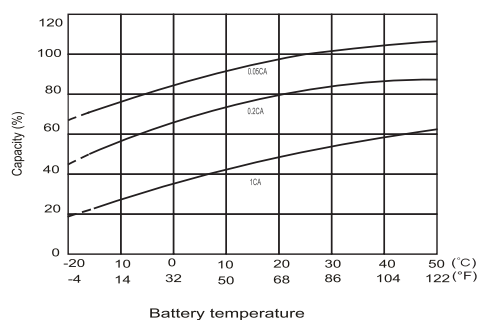
Discharge Characteristics



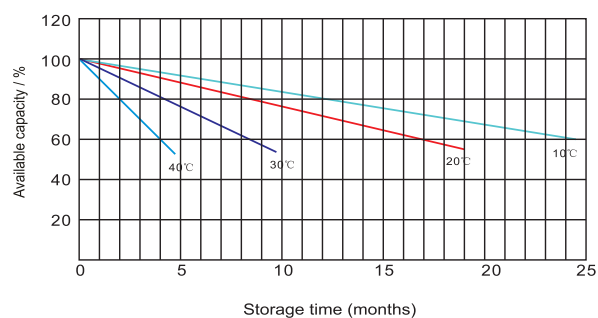
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



12V

VRLA-MF MOTORCYCLE BATTERY

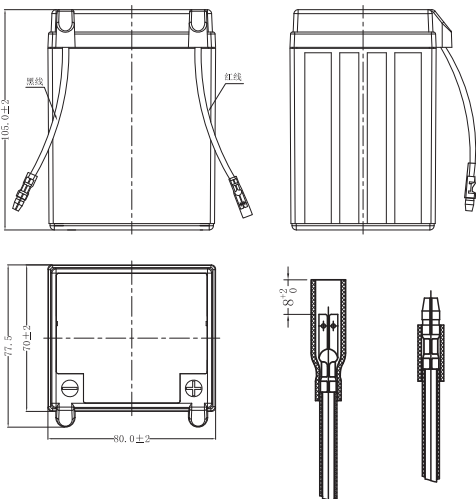
APEX 4

12V 2.5Ah (10HR) Maintenance Free



ITEM	SPECIFICATIONS
Nominal voltage	12V
Nominal capacity (10HR)	2.5 Ah
Length	80mm (3.1 in)
Width	70mm (2.76 in)
Container height	105mm (4.13 in)
Total height	105mm (4.13 in)
Battery (With Acid) Approx weight	1.04kg (2.29 lbs)
Terminal Type	/

DIMENSIONS (mm)



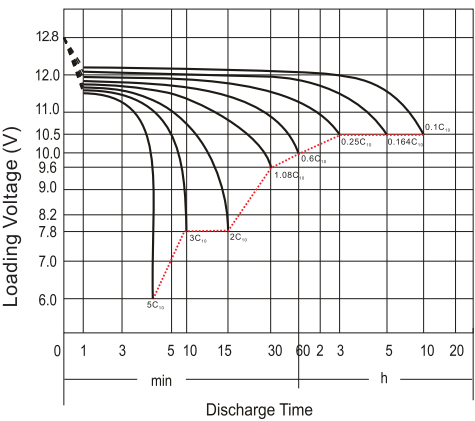
SAFETY INSTRUCTIONS

- Avoid shorting terminals
- Do not charge in a gas tight terminal
- Keep sparks and flames away

GENERAL FEATURES

- Maintenance-Free
- Sealed and non-spillable AGM battery
- Shipped pre-charged and ready to install

Discharge Characteristics (25°C, 77°F)





EXCEEDING EXPECTATIONS

Superior quality batteries manufactured under Japanese Standards, we provide dependable technology thanks to decades of innovation.

POTENZA BATTERIES

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