

PORTALAC

VALVE REGULATED LEAD-ACID BATTERIES

POWERING YOUR WORLD

NO MATTER WHY YOU NEED A BATTERY,
WE HAVE A VRLA BATTERY FOR YOU.



PE series - for standard performance
PX series - for high rate of discharge
PXL series - for high discharge and long life



THE POWER OF INNOVATION

PXL SERIES, FOR HIGH DISCHARGE AND LONG LIFE.

FEATURES

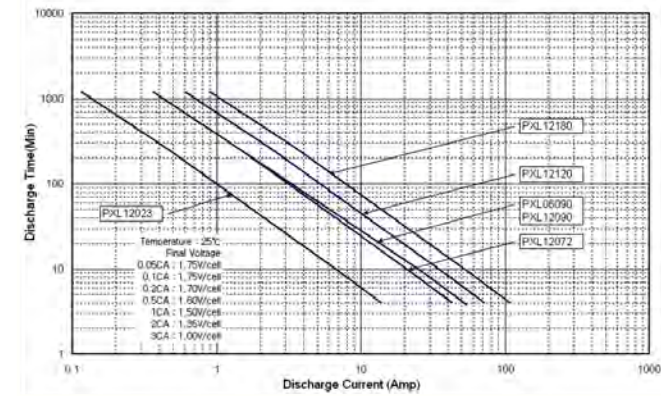
- Trickle (Float) charge life expectancy is about 6 years. (at 0.25CA discharge and 25° C)
- The batteries are compatible with standard types (PE/PX series)
- Cycle life expectancy has been improved by more than twofold compared with standard type (PE/PX series)

HIGH RATE DISCHARGE AND LONG LIFE TYPE

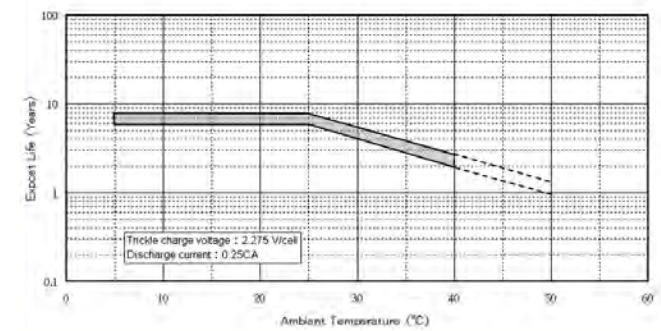


PXL

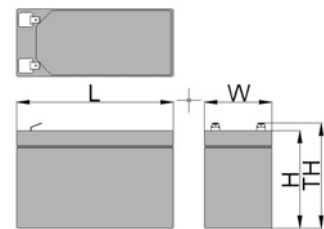
DISCHARGE CURRENT



STANDBY USE LIFE EXPECTANCY PXL



MEASUREMENTS (mm)

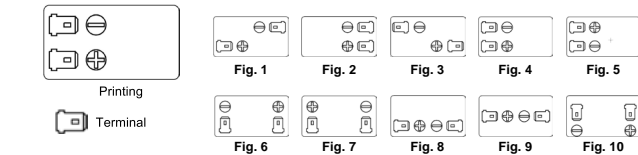


TERMINAL TYPE (mm)

	A	B	C
F1	6.35	4.75	0.8
F2	8.0	6.35	0.8

B1 M5 screw
B2 M6 screw

TERMINAL POSITION



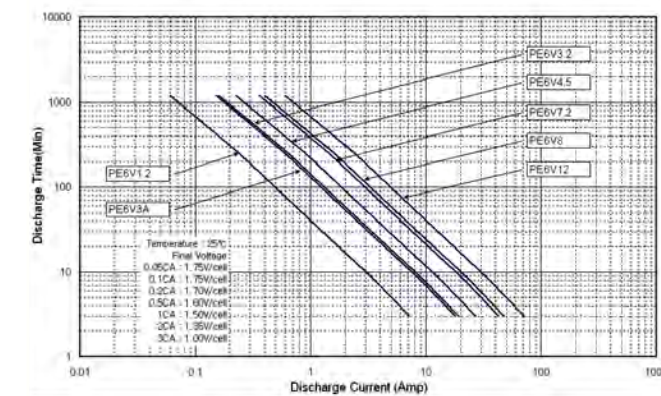
PE SERIES, FOR STANDARD PERFORMANCE PX SERIES, FOR HIGH RATE OF DISCHARGE

FEATURES

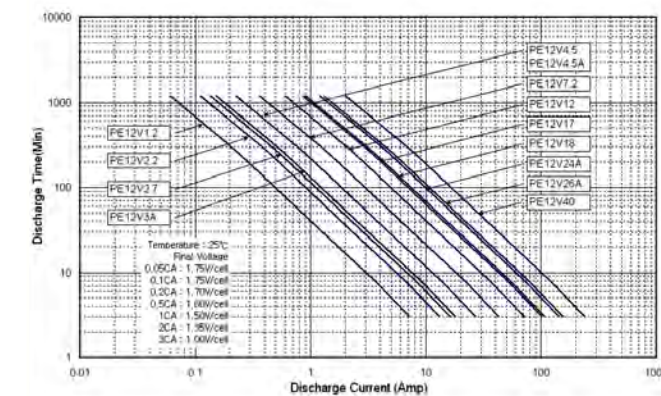
- Comprehensive line up
- Maintenance free
- Economical

PE

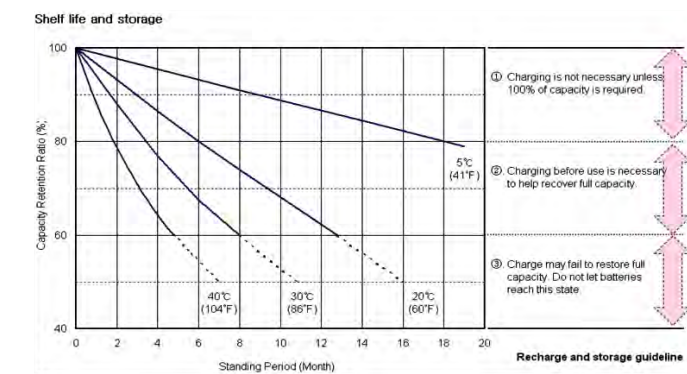
DISCHARGE CURRENT 6V



DISCHARGE CURRENT 12V

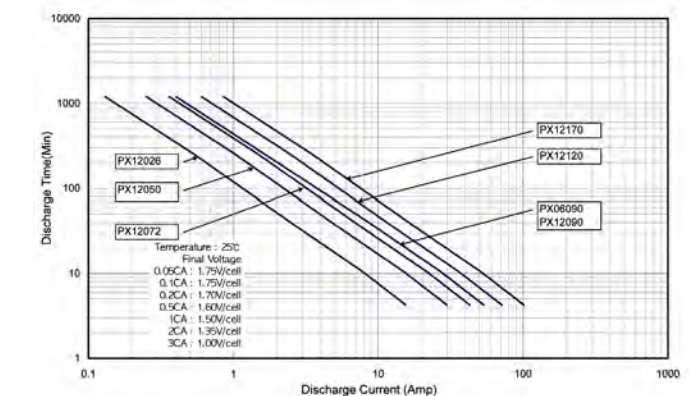


STORAGE PERIOD AND CAPACITY PE/PX/PYL

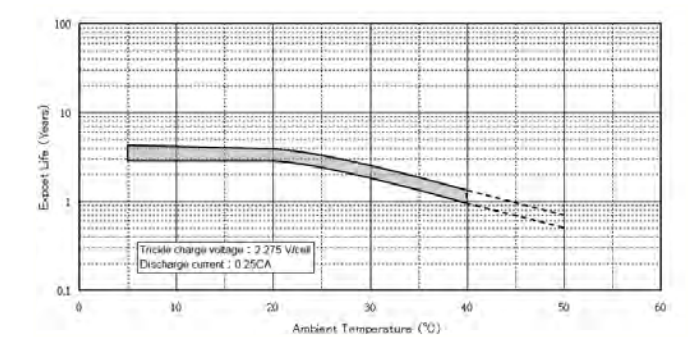


PX

DISCHARGE CURRENT



STANDBY USE LIFE EXPECTANCY PE/PX



PE/PX/PYL SPECIFICATIONS FOR CONSTANT VOLTAGE CHARGING SYSTEM

Charging Method	Standby Service	Cycle Use	
		Standard	Fast ^(note3)
Fixed Constant Voltage [at 25°C]	2.275±0.025	2.425±0.025	2.45±0.025
Temp. Compensation (mV°C/cell) ^(note1)	-3	-5	-5
Max. Charging Current [CA]	0.25	0.25	1.5 ^(note2)
Charging Time(Hr)	100%	24	2-3
	50%	22	1-3

Note:
1). Standard temperature gradient: 25°C
2). On fast charging, it is necessary to use a protect circuit or a thermal protector for protecting battery. Please contact us when designing the charging system.
3).

Capacity	CA
10Ah and over	1.0CA
10Ah and over (battery bank)	0.75CA
Less than 10Ah (battery bank)	1.0CA



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MODEL	NOMINAL VOLTAGE (V)	RATED CAPACITY (20HR) (Ah)	RATED CAPACITY (10HR) (Ah)	RATED CAPACITY (5HR) (Ah)	RATED CAPACITY (1HR) (Ah)	OVERALL DIMENSIONS (mm)								WEIGHT		TERMINAL	LIFE EXPECTANCY (25°C)	APPLICATION
						L		W		H		TH		Kg	Lbs			
						mm	in	mm	in	mm	in	mm	in					
Portalac PE																		
PE6V1.2	6.0	1.2	1.08	1.00	0.72	97.0	3.82	24.0	0.94	51.0	2.01	55.0	2.17	0.30	0.66	F1(187)	2-3 years	General application
PE6V3A	6.0	3.0	2.70	2.55	1.80	134.0	5.28	34.0	1.34	60.0	2.36	64.0	2.52	0.68	1.50	F1(187)		
PE6V3.2	6.0	3.2	2.88	2.72	1.92	66.0	2.60	33.0	1.30	118.0	4.65	124.0	4.88	0.75	1.65	F1/F2(187/250) F3(+250/-187)		
PE6V4.5	6.0	4.5	4.05	3.83	2.70	70.0	2.76	47.0	1.85	102.0	4.02	106.0	4.17	0.95	2.09	F1/F2(187/250) F3(+250/-187)		
PE6V7.2	6.0	7.2	6.48	6.12	4.32	151.0	5.94	34.0	1.34	94.0	3.70	98.0	3.86	1.38	3.04	F1/F2(187/250) F3/F5(+250/-187) F4/F6(+250/-187)		
PE6V8	6.0	8.0	7.20	6.80	4.80	98.5	3.88	56.5	2.22	118.0	4.65	118.0	4.65	1.50	3.31	F1/F4(187)		
PE6V12	6.0	12.0	10.80	10.20	7.20	151.0	5.94	51.0	2.01	94.0	3.70	98.0	3.86	2.10	4.63	F1/F2(187/250) F3/F5(+250/-187)		
PE6V48	6.0	48.0	-	-	-	166.0	6.54	125.0	4.92	170.0	6.69	187.0	7.36	9.10	20.06	Bolt and nut(M6)		
PE12V1.2	12.0	1.2	1.08	1.00	0.72	97.0	3.82	42.0	1.65	51.0	2.01	55.0	2.17	0.55	1.21	F1(187)		
PE12V2.2	12.0	2.2	1.98	1.87	1.32	178.0	7.01	34.0	1.34	60.0	2.36	64.0	2.52	0.98	2.16	F1(187)		
PE12V2.7	12.0	2.7	2.43	2.25	1.62	79.0	3.11	55.0	2.17	102.0	4.02	106.0	4.17	1.10	2.43	F1(187)		
PE12V3A	12.0	3.0	2.70	2.55	1.80	134.0	5.28	67.0	2.64	61.0	2.40	65.0	2.56	1.30	2.87	F1(187)		
PE12V4.5	12.0	4.5	4.05	3.83	2.70	90.0	3.54	70.0	2.76	102.0	4.02	106.0	4.17	1.75	3.86	F1/F2(187/250) F3(+250/-187)		
PE12V4.5A	12.0	4.5	4.05	3.83	2.70	90.0	3.54	70.0	2.76	102.0	4.02	106.0	4.17	1.75	3.86	F1/F2(187/250) F3(+250/-187)		
PE12V7.2	12.0	7.2	6.48	6.12	4.32	151.0	5.94	65.0	2.56	94.0	3.70	98.0	3.86	2.60	5.73	F1/F2(187/250) F3(+250/-187)		
PE12V12	12.0	12.0	10.80	10.20	7.20	151.0	5.94	98.0	3.86	94.0	3.70	98.0	3.86	4.20	9.26	F2(250)		
PE12V17	12.0	17.0	15.30	14.40	10.20	181.0	7.13	76.0	2.99	167.0	6.57	167.0	6.57	5.60	12.35	Bolt and nut(M5)		
PE12V18	12.0	18.0	16.20	15.30	10.80	181.0	7.13	76.0	2.99	167.0	6.57	167.0	6.57	6.65	14.66	Bolt and nut(M5)		
PE12V24	12.0	24.0	-	-	-	166.0	6.54	125.0	4.92	175.0	6.89	175.0	6.89	8.70	19.18	Bolt and nut(M5)		
PE12V24A	12.0	24.0	21.60	20.40	14.40	175.0	6.89	166.0	6.54	125.0	4.92	125.0	4.92	8.70	19.18	Bolt and nut(M5)		
PE12V26A	12.0	26.0	23.40	22.10	15.60	175.0	6.89	166.0	6.54	125.0	4.92	125.0	4.92	9.40	20.72	Bolt and nut(M5)		
PE12V40A	12.0	40.0	36.00	34.00	24.00	197.0	7.76	163.0	6.42	174.0	6.85	174.0	6.85	13.00	28.66	Bolt and nut(M6)		
Portalac PX																		
PX06090	6.0	8.0	7.20	6.80	4.80	151.0	5.94	34.0	1.34	94.0	3.70	101.0	3.98	1.45	3.20	F2(250)	Over 3 years	Height rate discharge type VRLA
PX12026	12.0	2.6	2.34	2.21	1.56	178.0	7.01	34.0	1.34	60.0	2.36	65.0	2.56	1.00	2.20	F1(187)		
PX12050	12.0	5.0	4.50	4.25	3.00	90.0	3.54	70.0	2.76	102.0	4.02	109.0	4.29	2.00	4.41	F2(250)		
PX12050SHR	12.0	5.0	-	-	-	90.0	3.54	70.0	2.76	102.0	4.02	105.5	4.15	2.00	4.41	F2(250)		
PX12072	12.0	7.2	6.48	6.12	4.32	151.0	5.94	65.0	2.56	94.0	3.70	101.0	3.98	2.70	5.95	F2(250)		
PX12090	12.0	8.0	7.20	6.80	4.80	151.0	5.94	65.0	2.56	94.0	3.70	101.0	3.98	2.80	6.17	F2(250)		
PX12120	12.0	12.0	10.80	10.20	7.20	151.0	5.94	98.0	3.86	94.0	3.70	101.0	3.98	4.30	9.48	F2(250)		
PX12180	12.0	18.0	16.20	15.30	10.80	181.0	7.13	76.0	2.99	167.0	6.57	167.0	6.57	6.65	14.66	Bolt and nut(M5)		
Portalac PXL																		
PXL06090	6.0	7.2	6.48	6.12	4.32	151.0	5.94	34.0	1.34	94.0	3.70	101.0	3.98	1.45	3.20	F2(250)	Over 6 years	High rate discharge long life VRLA
PXL12023	12.0	2.3	2.07	1.96	1.38	178.0	7.01	34.0	1.34	60.0	2.36	65.0	2.56	1.00	2.20	F1(187)		
PXL12050	12.0	5.0	-	-	-	90.0	3.54	70.0	2.76	102.0	4.02	105.5	4.15	2.00	4.41	F2(250)		
PXL12072	12.0	7.2	6.48	6.12	4.32	151.0	5.94	65.0	2.56	94.0	3.70	101.0	3.98	2.75	6.06	F2(250)		
PXL12090	12.0	8.0	7.20	6.80	4.80	151.0	5.94	65.0	2.56	94.0	3.70	101.0	3.98	2.80	6.17	F2(250)		
PXL12120	12.0	12.0	10.80	10.20	7.20	151.0	5.94	98.0	3.86	94.0	3.70	101.0	3.98	4.30	9.48	F2(250)		
PXL12180	12.0	18.0	16.20	15.30	10.80	181.0	7.13	76.0	2.99	167.0	6.57	167.0	6.57	6.65	14.66	Bolt and nut(M5)		



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