



# PWL SERIES

HIGH TEMPERATURE SUPER LONG LIFE BATTERIES with *HT Element X Alloy™*

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Proven in the real world, the PWL Series of telecom batteries provides security and long life in extremely hot climates where other VRLA batteries just don't survive. The PWL technology utilizes GS Yuasa Energy Solutions' proprietary *HT Element X Alloy™* and active material additives. The PWL Series is the most cost effective battery solution over the total life cycle and for initial installation in your network.

### 13+ YEAR DESIGN LIFE

- + Exceeds Telecordia GR-1200 criteria
- + Greater than 6.5 years at 35°C

### CAPACITY RANGE

- + 25Ah - 155Ah

### COMPLIANCE

- + VZ TPR-9802
- + GR-4228
- + GR-1089
- + GR-63 NEBS

### HIGH TEMPERATURE LONG LIFE DESIGN

- + *HT Element X Alloy™* extends life in high temp applications
- + Additives to maintain compression
- + Designed to control charging current as temperature increases
- + No thermal runaway
- + Epoxy sealed terminals to prevent post leaks
- + Rugged ABS cases to minimize handling damage

### SAFETY

- + UL 94V-0
- + UL 1989



Creating the Future of Energy



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## SPECIFICATIONS

MODEL	NOMINAL VOLTAGE (V)	*RATED CAPACITY at 8 Hr (Ah)	** OPERATING RANGE	L		W		H		TH		WEIGHT		TERMINAL
				mm	in.	mm	in.	mm	in.	mm	in.	kg	lbs.	
PWL12V28	12	25	-40 to 65°C (-40 to 149°F)	166	6.5	125	4.9	175	6.9	175	6.9	8.9	19.6	Top-M5 Bolt & Nut
PWL12V38		33		197	7.8	163	6.4	174	6.9	174	6.9	14.0	30.8	Top-M5 Stud
PWL12V65FS		65		280	11.2	97	3.8	270	10.6	270	10.6	21.6	47.6	Top-M6 Bolt Front-M6 Bolt
PWL12V115FT		115		556	21.9	125	4.9	227	8.9	227	8.9	38.9	85.8	Top-M8 Bolt Front-M6 Bolt
PWL12V145FS		152		415	16.3	174	6.9	258	10.2	258	10.2	50.5	111.3	Front-M6 Bolt
PWL12V155FS		155		415	16.3	174	6.9	258	10.2	258	10.2	50.5	111.3	Front-M6 Bolt

\*Maximum Charge Current is 25% of the 8 Hr. Rate

\*\*Refer to Product Manual for optimum temperature range

## AMPERES TO FINAL VOLTAGE: 1.75V@25°C (77°F)

MODEL	DISCHARGE TIME (Hr)										
	2	3	4	5	6	7	8	9	10	12	20
PWL12V28	9.5	6.8	5.3	4.4	3.8	3.4	3.1	2.7	2.5	2.2	1.4
PWL12V38	12.9	9.2	7.3	6.1	5.2	4.6	4.1	3.7	3.4	2.9	1.9
PWL12V65FS	25.3	18.1	14.2	11.8	10.2	9.0	8.1	7.4	6.7	5.8	3.6
PWL12V115FT	45.5	32.4	25.4	21.1	18.2	16.0	14.4	13.0	11.9	10.0	6.4
PWL12V145FS	58.4	42.2	33.3	27.7	24.5	21.5	19.0	17.3	16.1	13.8	8.5
PWL12V155FS	58.4	42.2	33.3	27.9	24.4	21.5	19.4	17.7	16.2	14.1	8.6

## WATTS TO FINAL VOLTAGE: 1.75V@25°C (77°F)

MODEL	DISCHARGE TIME (Hr)										
	2	3	4	5	6	7	8	9	10	12	20
PWL12V28	113	83	66	54	47	41	37	33	30	26	16
PWL12V38	153	112	89	74	63	56	50	45	41	35	22
PWL12V65FS	298	212	167	139	120	106	95	86	79	67	42
PWL12V115FT	537	381	299	248	213	188	169	152	139	119	75
PWL12V145FS	690	497	392	326	283	250	223	200	188	162	99
PWL12V155FS	690	497	392	329	300	260	228	206	190	166	100

### ABOUT GS YUASA ENERGY SOLUTIONS, INC.

GS Yuasa Energy Solutions, Inc. is an American subsidiary of GS Yuasa Corporation, the world's second largest battery company and a 100+ year old Japanese corporation. GS Yuasa Energy Solutions (GYES) was formed in 2019 to address the growing energy storage and reserve power markets. GYES brings together and leverages GS Yuasa Group's advanced technologies with proven American market successes in lithium, telecom, UPS, alarm & security, and energy storage into a single business unit.



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