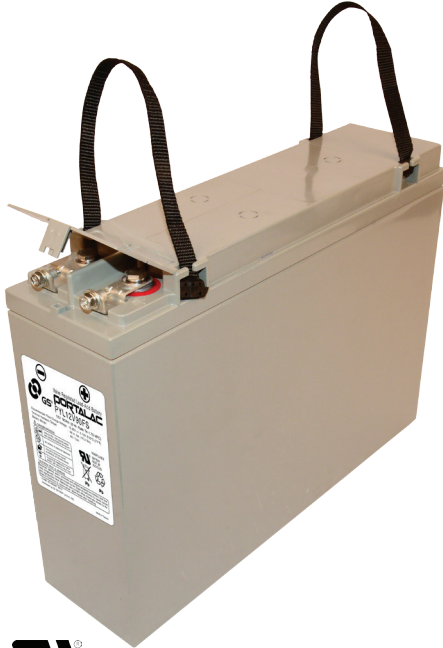




# PYL12V90FS 12V 90Ah-8Hr

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

### TECHNICAL DATA SHEET



#### 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

#### 10+ YEAR DESIGN LIFE

- + Exceeds Telcordia GR-1200 criteria
- + Greater than 5 years at 35°C

#### COMPLIANCE

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

#### SAFETY

- + UL 94V-0
- + UL 1989

### 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.	
PYL12V90FS	12	90	-40 to 65°C (-40 to 149°F)	395	15.6	105	4.1	255	10.0	255	10.0	30.0	66.1	Front-M6 Bolt Top-M8 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
PYL12V90FS	34.2	24.4	19.3	16.1	14.1	12.5	11.3	10.3	9.2	8.3	5.0

#### 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
PYL12V90FS	389	280	219	182	162	144	130	115	105	96	58

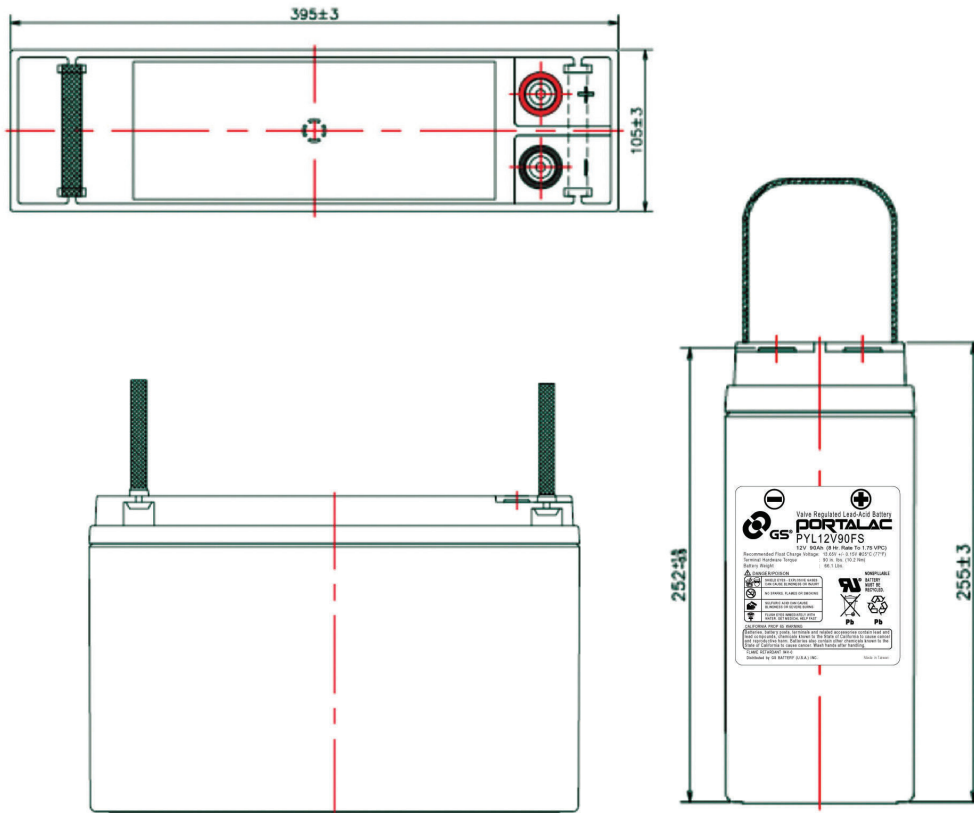


POWERING THE NEXT GENERATION



# PYL12V90FS 12V 90Ah-8Hr HIGH TEMPERATURE SUPER LONG LIFE BATTERY with *HT Element X Alloy™*

units: mm



- **Float Charge Voltage:** 13.65 ±0.15 @ 25°C
- **Temperature Compensation:** Adjust float charge voltage +3mV/°C/cell for temperatures <25°C; -3mV/°C/cell for temperatures >25°C.
- **Internal Resistance:** Approximately 3.4mΩ measured with 1kHz AC bridge
- **Terminal Hardware Torque:** (Top, 8mm): 90 in-lbs. (10.17 Nm)  
(Front, 6mm): 43.4 in-lbs. (4.9 Nm)

## 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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