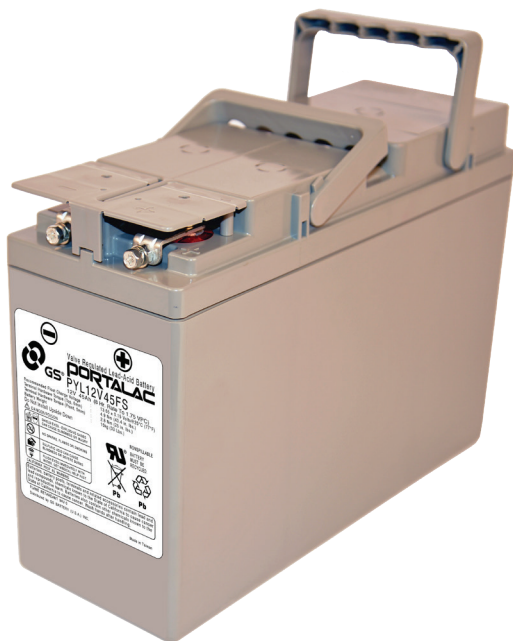




# PYL12V45FS 12V 45Ah-8Hr

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

## TECHNICAL DATA SHEET



### HIGH TEMPERATURE LONG LIFE DESIGN

- + *HT 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.	
PYL12V45FS	12	45	-40 to 65°C (-40 to 149°F)	278	11.0	103	4.0	197	7.8	197	7.8	15.0	33.0	Front-M5 Bolt Top-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
PYL12V45FS	18.1	12.9	10.0	8.3	7.2	6.2	5.6	5.1	4.6	4.0	2.4

### 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
PYL12V45FS	213	151	117	97	82	72	66	58	54	45	28



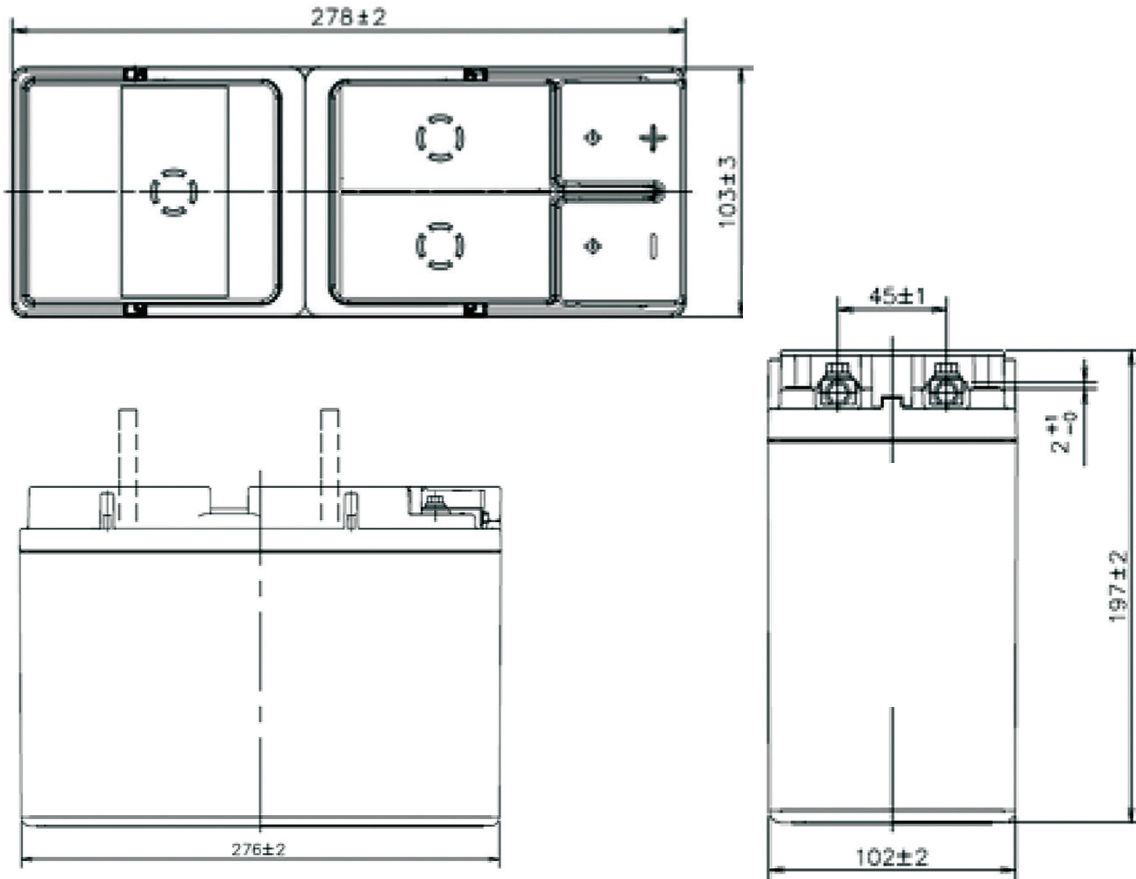
POWERING THE NEXT GENERATION



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units: mm



- Float Charge Voltage:  $13.65 \pm 0.15$  @  $25^{\circ}\text{C}$
- Temperature Compensation: Adjust float charge voltage  $+3\text{mV}/^{\circ}\text{C}/\text{cell}$  for temperatures  $<25^{\circ}\text{C}$ ;  $-3\text{mV}/^{\circ}\text{C}/\text{cell}$  for temperatures  $>25^{\circ}\text{C}$ .
- Internal Resistance: Approximately  $4.7\text{m}\Omega$  measured with 1kHz AC bridge
- Terminal Hardware Torque: (Top, 6mm): 43.4 in-lbs. (4.9 Nm)  
(Front, 5mm): 26.55 in-lbs. (3.0 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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