



PYL12V45FS

Valve Regulated Lead-Acid (VRLA)
Absorbed Glass Mat (AGM)

GS PYL Series with **HT X Alloy™**, high temperature batteries optimized for performance and life

SPECIFICATIONS

Battery Model:	PYL12V45FS
Nominal Voltage:	12
Capacity: 8-hr rate, 1.75vpc @ 25°C (77°F)	45.0
20-hr rate, 1.75vpc @ 25°C (77°F)	48.2
Case Material:	UL94V-0
Terminal Options:	Front - M5 Top - M6
Terminal Torque (Terminals using Bolts):	M5, 3.0Nm (26 in-lb) M6, 4.9Nm (43 in-lb)
Dimensions:	
◦ Length (mm inches)	278.0 10.94
◦ Width (mm inches)	103.0 4.06
◦ Case Height (mm inches)	197.0 7.76
◦ Height over Terminal (mm inches)	197.0 7.76
Weight (kg lbs):	15.0 33.07
Short circuit current (A):	1370
Maximum charge current (A):	11.3
Internal Resistance (mΩ):	4.7

GENERAL

Design Life:	10+ Years More than 5 years at 35°C Exceeds Telecordia GR-1200 criteria
Flame arresting one-way vent	
Epoxy sealed terminals to prevent post leaks	
Rugged ABS cases to minimize handling damage	
Storage:	
◦ Capacity loss per month at 25°C (77°F)	~3%
◦ In fully charged condition	-20°C to 60°C (-4°F to 140°F)
Operating Temperature Range:	-40°C to 65°C (-40°F to 149°F)
◦ Refer to Product Manual for optimum temperature range	
Float Charge Voltage:	
◦ Charge voltage at 25°C (77°F)	2.275±1%/cell
◦ Temperature correction factor from 25°C (77°F)	-3mV per °C/cell

Features providing longer life:

- HT X Alloy™**
- Proprietary Additives
- Lead Calcium Grids
- Primary Lead
- Strategic use of Tin
- Optimized AGM Separators

Applications:

- Telecom
- Broadband
- Emergency Lighting
- Signaling and Traffic
- Energy
- Switchgear & Control

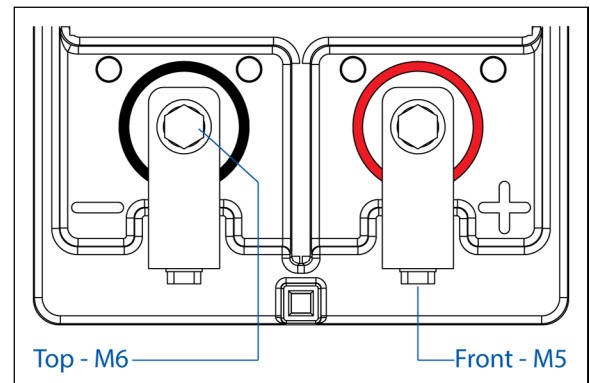
Non-spillable, meets or exceeds DOT and IATA requirements for non-hazardous transportation



CERTIFICATIONS/COMPLIANCE

- ISO 9001
- ISO 14001
- VZ TPR-9802
- GR-4228-CORE
- GR-1089
- GR-63 NEBS
- IEC 60896-21
- UL recognized component, UL1989
- TAA Compliant - Available
- DRC Conflict Free

TERMINAL OPTIONS



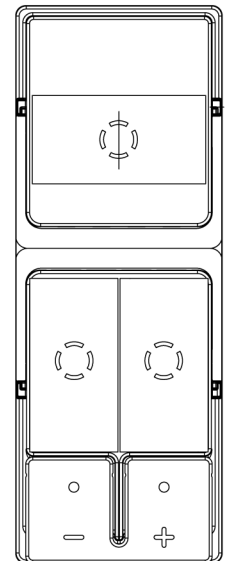
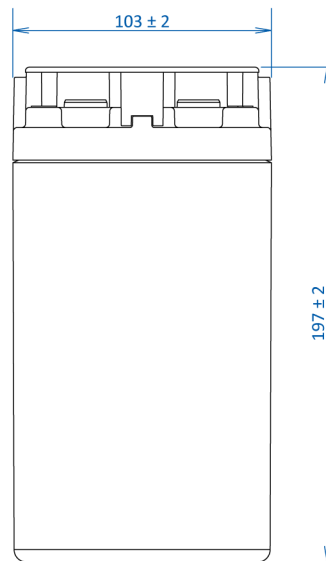
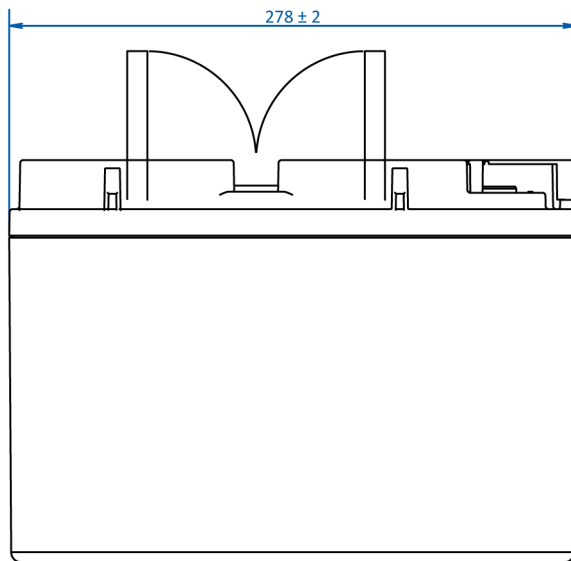
(800) 472-2879
www.gsyuasa-es.com
sales@gsyuasa-es.com

GS Yuasa Energy Solutions, Inc
1150 Northmeadow Pkwy, Suite 110
Roswell, GA 30076



PYL12V45FS

Valve Regulated Lead-Acid (VRLA)
Absorbed Glass Mat (AGM)



Discharge, Amps @ 25°C (77°F)											
End vpc	1.5h	2h	3h	4h	5h	6h	7h	8h	10h	20h	24h
1.85vpc	20.6	16.4	11.7	9.15	7.61	6.56	5.78	5.19	4.29	2.23	1.87
1.80vpc	22.0	17.4	12.4	9.67	8.03	6.91	6.09	5.46	4.50	2.34	1.96
1.75vpc	22.9	18.1	12.9	10.0	8.30	7.13	6.28	5.63	4.64	2.41	2.02
1.70vpc	23.5	18.6	13.2	10.2	8.45	7.26	6.39	5.72	4.71	2.44	2.05

Discharge, Watts @ 25°C (77°F)											
End vpc	1.5h	2h	3h	4h	5h	6h	7h	8h	10h	20h	24h
1.85vpc	245	195	141	110	91.5	78.9	69.6	62.5	51.6	26.8	22.5
1.80vpc	259	206	148	116	96.2	82.8	73.0	65.5	53.4	27.7	23.2
1.75vpc	268	213	151	117	97.1	83.4	73.3	65.6	53.9	28.0	23.5
1.70vpc	268	213	153	118	98.1	84.2	74.0	66.3	54.5	28.3	23.7

Order Number:
T60-0001-00
T60-0001-02
T60-0001-04

Description
Quantity 1, PYL12V45FS
Quantity 2, PYL12V45FS w/hardware
Quantity 4, PYL12V45FS w/hardware

Distributed By:



WARNING: Cancer and Reproductive Harm. Wash hands after handling. www.P65Warnings.ca.gov



(800) 472-2879
www.gsyuasa-es.com
sales@gsyuasa-es.com

GS Yuasa Energy Solutions, Inc
1150 Northmeadow Pkwy, Suite 110
Roswell, GA 30076
MKT-118 PYL12V45FS Spec Sheet ver. 1.0 08-2025