



# PYL SERIES

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

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

### 10+ YEAR DESIGN LIFE

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

### CAPACITY RANGE

- + 45Ah - 200Ah

### 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



POWERING THE NEXT GENERATION



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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.	
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
PYL12V55TT		55		226	8.9	135	5.3	207	8.1	210	8.2	18.4	40.6	Top-M6 Bolt
PYL12V80TT		80		259	10.2	168	6.6	212	8.4	212	8.4	27.0	59.5	Top-M6 Bolt
PYL12V90TT		92		305	12.0	173	6.8	220	8.7	224	8.8	32.0	70.6	Top-M6 Bolt
PYL12V90FS		90		395	15.6	105	4.1	255	10.0	255	10.0	30.0	66.1	Front-M6 Bolt Top-M8 Bolt
PYL12V100FA		102		558	22.0	125	4.9	233	9.2	233	9.2	41.0	90.3	Front-M6 Bolt Top-M8 Bolt
PYL12V100FT		100		508	20.0	106	4.2	236	9.3	236	9.3	34.9	76.9	Front-M6 Bolt Top-M6 Bolt
PYL12V100FS		100		368	14.5	106	4.2	283	11.1	283	11.1	33.0	72.8	Front-M6 Bolt Top-M8 Bolt
PYL12V140TT		140		341	13.4	173	6.8	281	11.0	281	11.0	49.0	108.0	Top-M8 Bolt
PYL12V160FT		160		556	21.9	125	4.9	280	11.0	280	11.0	52.7	116.2	Front-M6 Bolt Top-M8 Bolt
PYL12V175FT		175		556	21.9	125	4.9	317	12.5	317	12.5	56.0	123.5	Front-M6 Bolt Top-M8 Bolt
PYL12V185FT		185		556	21.9	125	4.9	317	12.5	317	12.5	60.7	133.8	Front-M6 Bolt Top-M8 Bolt
PYL12V200FT		200		604	23.8	123	4.8	320	12.6	320	12.6	67.0	147.7	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
PYL12V45FS	18.1	12.9	10.0	8.3	7.2	6.2	5.6	5.1	4.6	4.0	2.4
PYL12V55TT	21.7	15.4	12.1	10.0	8.6	7.6	6.8	6.2	5.6	4.8	3.0
PYL12V80TT	32.4	23.1	18.4	15.5	13.5	11.6	10.0	9.0	8.2	7.1	4.3
PYL12V90TT	33.1	23.6	18.9	16.1	14.1	12.5	11.5	10.3	9.4	8.3	4.9
PYL12V90FS	34.2	24.4	19.3	16.1	14.1	12.5	11.3	10.3	9.2	8.3	5.0
PYL12V100FA	35.8	28.2	22.2	18.5	16.0	14.2	12.8	11.3	10.4	9.3	5.4
PYL12V100FT	40.4	28.9	23.0	18.9	15.9	14.0	12.5	11.6	10.2	9.2	5.2
PYL12V100FS	39.2	27.9	22.0	18.3	15.9	14.0	12.7	11.3	10.4	8.9	5.6
PYL12V140TT	59.0	42.2	32.9	27.1	22.2	19.7	17.5	15.9	14.6	12.8	7.9
PYL12V160FT	62.6	44.7	35.1	29.2	25.2	22.2	20.0	18.1	16.6	14.1	8.9
PYL12V175FT	66.8	48.0	38.0	31.7	27.4	24.3	21.9	19.9	18.2	15.5	9.9
PYL12V185FT	71.2	52.0	41.3	34.4	30.0	26.0	23.1	21.0	19.3	17.7	10.2
PYL12V200FT	80.7	57.5	45.1	37.7	32.1	28.1	25.0	22.6	20.8	17.5	10.9

### 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
PYL12V55TT	255	181	142	117	101	89	79	72	65	56	35
PYL12V80TT	405	289	231	196	159	139	123	112	102	87	54
PYL12V90TT	403	288	230	189	171	159	143	125	111	101	60
PYL12V90FS	389	280	219	182	162	144	130	115	105	96	58
PYL12V100FA	444	324	256	213	182	160	142	127	117	103	63
PYL12V100FT	467	337	267	219	188	167	146	137	119	110	63
PYL12V100FS	462	329	259	215	185	163	146	132	121	102	65
PYL12V140TT	709	499	386	318	269	235	206	188	171	145	93
PYL12V160FT	739	526	414	343	296	260	234	212	194	165	104
PYL12V175FT	788	565	447	373	322	286	257	233	213	181	115
PYL12V185FT	829	609	487	407	351	315	275	250	232	215	123
PYL12V200FT	952	685	539	451	383	335	298	271	250	210	131

#### 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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