



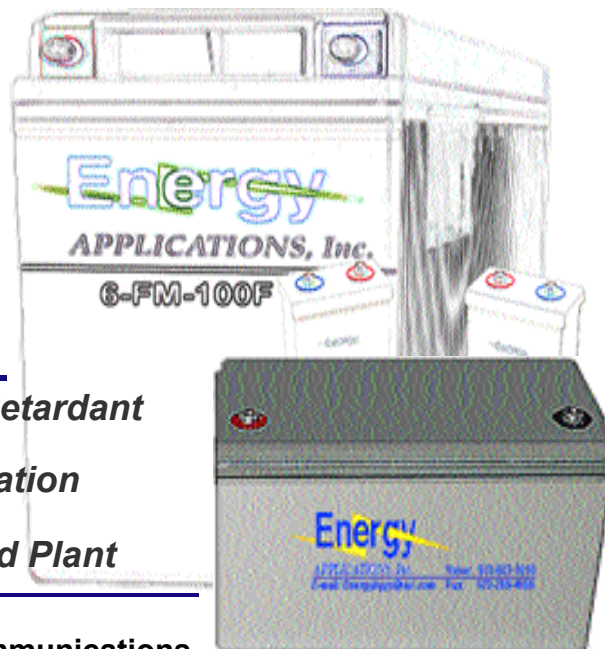
**APPLICATIONS, Inc.**

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# Communications Batteries

## 12 Volt Valve Regulated Types

- **Form, Fit and Function**
- **UL 94V0 Flame Retardant**
- **Heat Welded Design**
- **99.9% Recombination**
- **UL Component**
- **ISO-9001 Certified Plant**



### Standby and Emergency Power

- › TELECOMMUNICATIONS
- › BROADBAND SYSTEMS
- › CELLULAR NETWORKS
- › SWITCHGEAR & CONTROLS

### Voice & Digital Communications

- › 12 VOLT BLOCKS
- › STANDARD PHYSICAL FIT
- › STANDARD ELECTRICAL SIZES
- › INTERCHANGEABLE

## Technical Specifications

Battery Type / Technology	12 Volt Batteries, Absorbent Glass Mat (AGM) type
Nominal Ratings	30 to 125 Ampere Hours to 1.75 v/c for 8 Hours
Operating Temperature	0° to 113°F (-20 to 45C)
Storage Temperature	Temperature effects self discharge
Storage Time	6 months @ 70F prior to refreshing charge
Self Discharge	0.5 - 0.8% per week, @ 70F
Terminal Type	All Models - M6, Threaded copper Insert, hex bolt
Case Material	ABS, Flame Retardant
Flame Retardation	UL 94V0, complies with UL1778 requirements
Air Transport	Complies to IATA/CAO provision A67
Surface Transport	Non Hazardous, DOT-CFR title 49, 171-189
Charging Method	Constant voltage, current limited, float service
Maximum Charge Current	0.2C - (0.2 x rated capacity in AH)
Maximum AC Ripple	Less than 1% RMS ( 3.5% P-P )
Max Discharge Rate (5 seconds)	5C ( 5 x Rated Capacity)
Temperature Compensation	Adjust -0.018 V per °C
Float Charge Voltage, battery	13.38 - 13.50
Float Charge Voltage, per cell	2.23-2.25
Cycle Charge Voltage, battery	14.40
Cycle Charge Voltage, per cell	2.40

### Product Features

ABS Plastic Welded Case

High impact resistant material for good transport and handling . Most models are heat welded seals, with multiple pour epoxy post seals.

Flame Retardant UL94VO

Flame retardant ABS for UL 1778 and NFPA requirements.

Maintenance Free Design

Over 99% oxygen recombination with no electrolyte service required.

UL Recognized Component

Interchangeable with other batteries in performance and safety.

Low Self Discharge

Highest quality materials and design extend shelf life, and float service.

Quality - ISO-9001

Modern and fully automated battery making, forming and test equipment.

Technical data are subject to change without notice. Please confirm important details with the technical department.

Model 12V30T - 30 Amp Hours								
Discharge Data - Amperes Various End Voltges (77 / 25°)					Length	Width	Height	
					USA	7.7	5.1	7.1
					Metric	195	130	180
End Volts	1 min	1 Hour	3 Hour	5 Hour	8 Hour	10 Hour	24 Hour	
1.67	120	20.0	x	x	x	x	x	
1.70	117	20.0	x	x	x	x	x	
1.75	103	19.7	8.30	5.50	3.75	3.15	1.45	
1.80	92	19.5	8.10	5.40	3.60	2.60	1.40	
1.85	67	18.2	7.80	5.10	3.40	2.55	1.34	

Model 12V45T - 45 Amp Hours								
Discharge Data - Amperes Various End Voltges (77 / 25°)					Length	Width	Height	
					USA	9.3	5.2	9.3
					Metric	236	132	235
End Volts	1 min	1 Hour	3 Hour	5 Hour	8 Hour	10 Hour	24 Hour	
1.67	201	33.0	x	x	x	x	x	
1.70	196	33.0	x	x	x	x	x	
1.75	171	32.4	13.8	9.1	6.0	5.0	1.5	
1.80	152	32.1	13.5	8.9	5.9	4.9	2.3	
1.85	131	30.1	12.9	8.5	5.7	4.7	2.2	

Model 12V70T - 70 Amp Hours								
Discharge Data - Amperes Various End Voltges (77 / 25°)					Length	Width	Height	
					USA	10.2	6.5	9.3
					Metric	258	166	235
End Volts	1 min	1 Hour	3 Hour	5 Hour	8 Hour	10 Hour	24 Hour	
1.67	255	47.0	x	x	x	x	x	
1.70	249	46.0	x	x	x	x	x	
1.75	239	45.3	19.3	12.5	8.8	7.3	1.5	
1.80	211	45.0	19.0	12.3	8.5	7.1	3.1	
1.85	183	43.1	12.3	11.9	8.3	6.9	3.0	

Model 12V90T - 90 Amp Hours								
Discharge Data - Amperes Various End Voltges (77 / 25°)					Length	Width	Height	
					USA	13.1	6.9	9.4
					Metric	332	174	239
End Volts	1 min	1 Hour	3 Hour	5 Hour	8 Hour	10 Hour	24 Hour	
1.67	364	60.0	x	x	x	x	x	
1.70	356	60.0	x	x	x	x	x	
1.75	312	58.8	25.2	16.5	11.4	9.6	4.4	
1.80	278	57.6	24.5	16.2	10.9	9.2	4.1	
1.85	202	52.1	23.6	15.3	10.3	8.6	4.0	

Model 12V125T - 125 Amp Hours								
Discharge Data - Amperes Various End Voltges (77 / 25°)					Length	Width	Height	
					USA	13.7	6.8	11.3
					Metric	347	173	287
End Volts	1 min	1 Hour	3 Hour	5 Hour	8 Hour	10 Hour	24 Hour	
1.67	437	80.0	x	x	x	x	x	
1.70	427	80.0	x	x	x	x	x	
1.75	374	79.0	35.3	23.2	15.7	12.9	5.7	
1.80	334	77.0	34.8	22.9	15.1	11.9	5.6	
1.85	242	75.0	33.5	22.2	14.8	11.2	5.5	

Temperature		Multiplier		
F	C	< 1 Hr	> 1 Hr	
104	40	1.04		1.06
86	30	1.01		1.02
77	25	1.00		1.00
68	20	0.95		0.97
50	10	0.88		0.90
40	4	0.83		0.84
32	0	0.76		0.77
14	-10	0.58		0.60
0	-18	0.43		0.45
-4	-20	0.38		0.40
-10	-23	0.30		0.32
-20	-29	0.20		0.22

### Temperature Derating

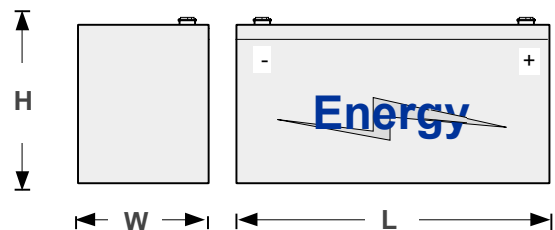
The above multipliers can be used to reduce table data performance values, or use the inverse of the multiplier to increase the load prior to selecting from the data tables.

Complex calculations should be reviewed by your local representative.

## Communications Batteries Dimensions - 12 Volt Blocks

Dimensional Data		Inches		
Model	Lbs.	L	W	H
12V30T	30	7.7	5.1	6.9
12V45T	45	9.0	5.4	8.6
12V70T	65	10.2	6.6	8.5
12V90T	85	12.9	6.8	8.8
12V125T	105	13.5	6.8	11.5

Dimensional Data		Millimeters		
Model	Kg	L	W	H
12V30T	14	195	130	173
12V45T	20	228	137	217
12V70T	30	257	167	215
12V90T	39	327	171	223
12V125T	48	341	172	290



ALL TERMINALS ARE M 6 BOLT SIZE, COPPER INSERTS  
ALTERNATE FLAG TERMINALS ARE AVAILABLE.



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Contact your local sales representative or distributor: