



primage

PRIMAGE

LEAD ACID BATTERY

LP series - General purpose
LPC series - Deep cycle
LPS series - Solar power
LPL series - Long life standby
LPX series - High rate / UPS
LPF series - Front terminal

LP Series - General Purpose

Typical Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system

Model	Nominal Voltage (V)	Rated Capacity (AH)				Approx Dimension								Approx Weight		Terminal Type
		20HR	10HR	5HR	1HR	Length		Width		Height		Total Height		kg	lbs	
		1.8V/cell	1.8V/cell	1.75V/cell	1.6V/cell	mm	in.	mm	in.	mm	in.	mm	in.			
LP 12-7	12	7	6.53	5.8	4.26	151	5.94	65	2.56	93.5	3.68	99	3.9	2.18	4.81	T2
LP 12-7.2	12	7.2	6.72	6	4.38	151	5.94	65	2.56	93.5	3.68	99	3.9	2.35	5.81	T2
LP 12-7.5	12	7.5	7	6.25	4.56	151	5.94	65	2.56	93.5	3.68	99	3.9	2.45	5.4	T2
LP 12-7.8	12	7.8	7.28	6.5	4.74	151	5.94	65	2.56	93.5	3.68	99	3.9	2.5	5.51	T2
LP 12-8.5	12	8.5	7.93	7.15	5.31	151	5.94	65	2.56	93.5	3.68	99	3.9	2.45	5.4	T2
LP 12-10	12	10	9.3	8.5	6.28	151	5.94	98	3.86	95	3.74	101	3.98	3.25	7.17	T2
LP 12-10H	12	10	9.3	8.5	6.28	151	5.94	65	2.56	111	4.37	117	4.61	3.2	7.06	T2
LP 12-12	12	12	11.2	10.2	7.54	151	5.94	98	3.86	95	3.74	101	3.98	3.5	7.72	T2
LP 12-14	12	14	13	11.9	8.79	151	5.94	98	3.86	95	3.74	101	3.98	4.05	8.93	T2
LP 12-15	12	15	14	12.8	9.42	181.5	7.15	77	3.03	167.5	6.59	167.5	6.59	4.7	10.4	T3
LP 12-18	12	18	16.7	15.3	11.3	181.5	7.15	77	3.03	167.5	6.59	167.5	6.59	5.4	11.9	T3
LP 12-20	12	20	18.6	17	12.6	181.5	7.15	77	3.03	167.5	6.59	167.5	6.59	5.78	12.7	T12
LP 12-24	12	24	22.3	20.4	15.1	166	6.54	175	6.89	125	4.92	125	4.92	7.2	15.9	T3
LP 12-24H	12	24	22.3	20.4	15.1	165	6.5	125	4.92	175	6.89	175	6.89	8.7	19.2	T12
LP 12-26	12	26	24.2	22.1	16.3	166	6.54	175	6.89	125	4.92	125	4.92	7.8	17.2	T12
LP 12-28	12	28	26	23.8	17.6	166	6.54	175	6.89	125	4.92	125	4.92	8.1	17.9	T3
LP 12-28H	12	28	26	23.8	17.6	165	6.5	125	4.92	175	6.89	175	6.89	9.1	20.1	T3
LP 12-30	12	29	27	24.7	18.2	166	6.54	175	6.89	125	4.92	125	4.92	8.6	19	T3
LP 12-30H	12	30	27.9	25.5	18.8	195	7.68	130	5.12	164	6.46	178	7.01	9.7	21.4	T5
LP 12-33	12	33	30.7	28.1	20.7	195	7.68	130	5.12	164	6.46	178	7.01	10.5	23.2	T5
LP 12-35	12	35	32.6	29.8	22	195	7.68	130	5.12	164	6.46	178	7.01	11.2	24.7	T5
LP 6-60	6	62.4	60	51.5	36.6	185	7.28	112	4.41	205	8.07	205	8.07	9.1	20.1	T2
LP 6-120	6	124.8	120	103	73.2	280	11	128	5.04	203	7.99	203	7.99	16.8	37	T6
LP 6-150	6	156	150	129	91.5	260	10.2	180	7.09	247	9.72	253	9.96	21.2	46.7	T7
LP 6-200H	6	210	200	172	122	306	12	168	6.61	222	8.74	228	8.98	28.2	62.2	T8
LP 12-38	12	40	38	32.7	23.2	197	7.76	165	6.5	170	6.69	170	6.69	12.2	26.9	T6
LP 12-40	12	40	38.5	33.1	23.5	255	10	97	3.82	203	7.99	203	7.99	12.5	27.6	T7
LP 12-45	12	46.8	45	38.7	27.5	197	7.76	165	6.5	170	6.69	170	6.69	14.2	31.3	T6
LP 12-50	12	52	50	43	30.5	257	10.1	132	5.2	200	7.87	200	7.87	16	35.3	T6
LP 12-55	12	57.2	55	47.3	33.6	229	9.02	138	5.43	205	8.07	211	8.31	16.5	36.4	T6
LP 12-60	12	62.4	60	51.5	36.6	260	10.2	168	6.61	208	8.19	214	8.43	18.5	40.8	T6
LP 12-65	12	65	62.1	53.6	37.5	348	13.7	167	6.57	178	7.01	178	7.01	19.2	42.3	T6
LP 12-70	12	72.8	70	60	42.7	348	13.7	167	6.57	178	7.01	178	7.01	21.6	47.6	T6
LP 12-75	12	78	75	64.5	45.8	260	10.2	168	6.61	208	8.19	214	8.43	22.3	49.2	T6
LP 12-80	12	83.2	80	69	48.8	260	10.2	168	6.61	208	8.19	214	8.43	24	52.9	T6
LP 12-90	12	93.6	90	77.5	54.9	330	13	173	6.81	212	8.35	220	8.66	28	61.7	T11
LP 12-100	12	104	100	86	61	330	13	173	6.81	212	8.35	220	8.66	30.4	67	T11
LP 12-120	12	124.8	120	103.2	73.2	408	16.1	177	6.97	225	8.86	225	8.86	35	77.2	T11
LP 12-135	12	140.4	135	116	82.4	345	13.6	172	6.77	274	10.8	280	11	41.2	90.8	T11
LP 12-150	12	156	150	129	91.5	483	19	170	6.69	238.5	9.39	238.5	9.39	43.5	95.9	T11
LP 12-180	12	187.2	180	155	109.8	532	20.9	207	8.15	214	8.43	220	8.66	52.8	116.4	T11
LP 12-200	12	208	200	172	122	522	20.9	240	9.45	218	8.58	224	8.82	60.2	132.7	T11
LP 12-250	12	260	250	215	152.5	522	20.9	268	10.6	220	8.68	226	8.9	73	161	T11

LPC Series - Deep Cycle

Typical Applications

- Electric Tools
- Vehicle in place of walking
- Lawn Mowers
- Golf trolleys and golf cart
- Portable apparatus, lights and instruments
- Electric toys
- Illumination light
- Fire alarms
- Portable power
- Wheelchairs
- Medical equipments

Model	Nominal Voltage (V)	Rated Capacity (AH) 10HR 1.8V/cell	Approx Dimension								Approx Weight		Terminal Type
			Length		Width		Height		Total Height				
			mm	in.	mm	in.	mm	in.	mm	in.	kg	lbs	
LPC 6-5.6	6	5	70	2.76	47	1.85	100	3.94	106	4.17	0.88	1.94	T2
LPC 6-13	6	13	151	5.94	51	2.01	94	3.7	100	3.94	2.05	4.52	T2
LPC 12-3.5	12	3.2	134	5.28	67	2.64	60.5	2.38	66.5	2.62	1.35	2.98	T1
LPC 12-5.6	12	5	90	3.54	70	2.76	101	3.98	107	4.21	1.77	3.9	T1
LPC 12-7.2	12	7.2	151	5.94	65	2.65	93.5	3.68	99	3.9	2.5	5.51	T2
LPC 12-8	12	8	151	5.94	65	2.65	93.5	3.68	99	3.9	2.45	5.4	T2
LPC 12-13	12	13	151	5.94	98	3.86	95	3.74	101	3.98	4.05	8.93	T2
LPC 12-18	12	18	181	7.15	77	3.03	167.5	6.59	167.5	6.59	6.05	13.34	T3
LPC 12-24	12	24	166.5	6.56	175	6.89	125	4.92	125	4.92	8.57	18.9	T3
LPC 12-24H	12	24	165	6.5	125	4.92	175	6.89	175	6.89	9.1	20.07	T3-A
LPC 12-26	12	26	166	6.54	175	6.89	125	4.92	125	4.92	9.35	20.62	T3
LPC 12-33	12	33	195	7.68	130	5.12	164	6.46	182	7.17	11.65	25.69	T5
LPC 12-38	12	38	197	7.76	165	6.5	170	6.69	170	6.69	14.2	31.31	T6
LPC 12-50	12	50	257	10.12	132	5.2	200	7.87	200	7.87	18.1	39.91	T6
LPC 12-55	12	55	229	9.02	138	5.43	210	8.27	230	9.06	17.7	39.03	T9
LPC 12-75	12	75	260	10.24	168	6.61	208	8.19	214	8.43	22.3	49.17	T6
LPC 12-100	12	100	330	12.99	173	6.81	212	8.35	220	8.86	30.4	67.03	T11
LPC 12-120	12	120	408	16.06	177	6.97	225	8.86	225	8.86	37.6	82.91	T11
LPC 12-150	12	150	483	19.02	170	6.69	238.5	9.39	238.5	9.39	43.5	95.92	T11
LPC 12-200	12	200	522	20.55	240	9.45	218	8.58	224	8.82	61.5	135.6	T11

Definitions of VRLA-AGM Battery

A VRLA-AGM battery is an electric storage lead-acid battery

- Sealed with special compound epoxy and using pressure controlled valves
- Starved electrolyte design - acid solution is absorbed in separators
- Using a recombination reaction to prevent the escape of hydrogen and oxygen gases
- Non spillable - can be operated in any position. But, upside-down installation is not recommended
- Maintenance free. But connections must be retorqued and the batteries should be cleaned periodically

LPS Series - Solar Power

(6V, 12V Series)

Typical Applications

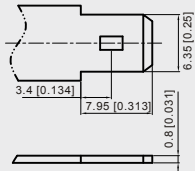
- Green energy systems (solar, wind, hydro, etc)
- Solar power stations
- Measurement stations
- Telecommunications installations
- Pump systems
- Signal station
- Survey and Mapping system
- Emergency lighting
- Railway crossing
- Traffic lights
- Street Lightening
- Lawn lamp
- Street signs
- SOS pillars
- Alarm installations
- Weekend cottage camping
- Caravans
- Boats or buoys

Model	Nominal Voltage (V)	Rated Capacity (AH)					Approx Dimension								Approx Weight		Terminal Type
		100HR	20HR	10HR	5HR	1HR	Length		Width		Height		Total Height		kg	lbs	
		1.8V/cell	1.8V/cell	1.8V/cell	1.75V/cell	1.6V/cell	mm	in.	mm	in.	mm	in.	mm	in.			
LPS 12-7.5	12	7.5	6.84	6.52	5.8	3.98	151	5.94	65	2.56	93.5	3.68	99	3.9	2.45	5.4	T2
LPS 12-18	12	18.4	16.8	16	14.2	9.76	181.5	7.15	77	3.03	167.5	6.59	167.5	6.59	5.7	12.6	T3
LPS 12-20	12	20.7	18.9	18	16	11	181.5	7.15	77	3.03	167.5	6.59	167.5	6.59	6	13.2	T3
LPS 12-30	12	30	27.4	26	23.1	15.9	165	6.5	125	4.92	175	6.89	175	6.89	9.1	20.1	T3-A
LPS 12-36	12	36.8	33.6	32	28.5	19.5	195	7.68	130	5.12	164	6.46	178	7.01	11.2	24.7	T5
LPS 6-115	6	115	105	100	87	60.8	195	7.68	170	6.69	206.5	8.13	212.5	8.37	16.5	36.4	T6-A
LPS 6-230	6	230	210	200	174.5	121.5	322	12.68	178	7.01	228	8.98	234	9.21	35	77.2	T11
LPS 12-40	12	43.7	40	38	33.2	23.1	197	7.76	165	6.5	170	6.69	170	6.69	13.2	29.1	T6
LPS 12-45FT	12	46	42	40	34.9	24.3	277	10.91	106	4.17	222	8.74	222	8.74	15.5	34.2	T6
LPS 12-50	12	50	45	42.9	37.4	26.1	197	7.76	165	6.5	170	6.69	170	6.69	14.5	32	T6
LPS 12-60FT	12	63.3	57.8	55	48	33.4	277	10.91	106	4.17	222	8.74	222	8.74	17.3	38.2	T6
LPS 12-75	12	74.8	68.2	65	56.7	39.5	348	13.7	167	6.57	178	7.01	178	7.01	21.2	46.8	T6
LPS 12-85FT	12	86.3	78.7	75	65.5	45.6	564	22.2	114	4.49	187	7.36	187	7.36	26	57.3	T6
LPS 12-85	12	86.3	78.7	75	65.5	45.6	260	10.24	168	6.61	208	8.19	214	8.74	25	55.1	T6
LPS 12-100FT	12	103.5	94.5	90	78.5	54.7	508	20	110	4.33	238.5	9.39	238.5	9.39	32	70.6	T13
LPS 12-115	12	110	100	95.2	83	57.9	306	12.05	168	6.61	208	8.19	230	9.06	30.6	67.6	T14
LPS 12-115FT	12	115	105	100	87	60.8	508	20	110	4.33	238.5	9.39	238.5	9.39	35	77.2	T13
LPS 12-135	12	138	126	120	104.5	72.9	408	16.06	177	6.97	225	8.86	225	8.86	37.6	82.9	T11
LPS 12-145FT	12	143.8	131.3	125	109.1	75.9	551	21.69	110	4.33	287	11.3	287	11.3	41.5	91.5	T6
LPS 12-160	12	161	147	140	122.2	85.1	345	13.58	172	6.77	274	10.79	280	11.02	45.5	100.3	T11
LPS 12-170FT	12	173	157.6	150	131	91.1	551	21.69	110	4.33	287	11.3	287	11.3	46.4	102.3	T6
LPS 12-230	12	230	210	200	174.5	121.5	522	20.55	240	9.45	218	8.58	224	8.82	65	143.3	T11
LPS 12-285	12	287.5	262.5	250	218	151.9	522	20.55	268	10.55	220	8.66	226	8.9	77	169.8	T11

VRLA-AGM Battery Terminal Options

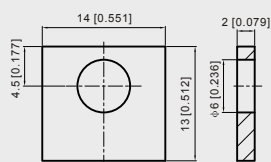
FASTON TYPE (Copper) quick disconnect tabs;
silver coating for better conductivity

T2 TERMINAL



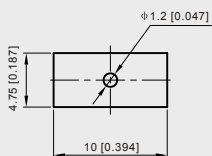
Brass Coated With Tin
Torque: 3.9 ~ 5.4 N*m (34.39 ~ 47.75 in*lbs)

T3 TERMINAL



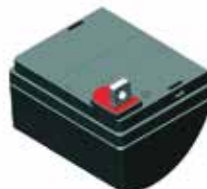
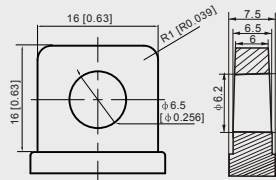
Brass Coated With Tin

T4 TERMINAL



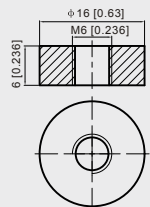
Lead
Torque: 3.9 ~ 5.4 N*m (34.39 ~ 47.75 in*lbs)

T5 TERMINAL



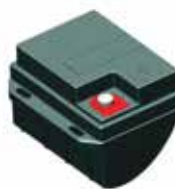
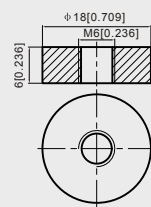
Brass Coated With Tin; Threaded Insert 6mm STUD
Torque: 3.9 ~ 5.4 N*m (34.39 ~ 47.75 in*lbs)

T6 TERMINAL



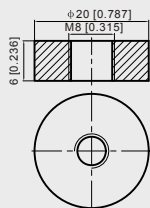
Brass Coated With Tin; Threaded Insert 6mm STUD
Torque: 3.9 ~ 5.4 N*m (34.39 ~ 47.75 in*lbs)

T7 TERMINAL



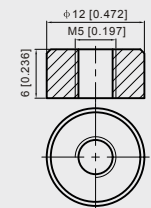
Brass Coated With Tin; Threaded Insert 8mm STUD
Torque: 11 ~ 14.7 N*m (97.28 ~ 130.0 in*lbs)

T11 TERMINAL



Brass Coated With Tin; Threaded Insert 5mm STUD
Torque: 2.0 ~ 3.0 N*m (17.69 ~ 26.53 in*lbs)

T12 TERMINAL



Note: the figures below just show the appearance and dimension.

Unit:mm[inch]

Applications

Primage VRLA-AGM Batteries are designed and categorized into six series for different applications as below:

LP series, General Purpose Applications:

- All Purpose Battery Needs
- UPS
- EPS
- Emergency Light
- Signal
- Security System
- Electronic Equipment
- DC Power Supply
- Tele-communication
- Power System
- Network Communication

LPL series, Long Life Standby Applications:

- UPS
- EPS
- Emergency Light
- Railway Signal
- Electronic Apparatus
- Communication DC Power
- Tele-Communication
- Power System Communication
- Network Communication
- Marine

LPC series, Deep Cycle Applications:

- Electric Tools
- Lawn Mowers
- Golf Trolleys
- Portable Apparatus
- Electric Toys
- Illumination Light
- Wheel Chairs
- Medical Equipment

LPX series, High Rate Discharging / UPS Applications:

- UPS (high rate)
- High Power Backup
- Starting System
- Power Tools
- Emergency Lighting
- Electric Starting

LPS series, Solar / Wind / Hydro Power System Applications:

- Green Energy Systems (solar, wind hydro, etc)
- Measurement Stations
- Pump Systems
- Signal Station
- Emergency Lighting
- Railway Crossing
- Traffic Lights
- Street Lightening
- Lawn Lamp
- SOS Pillars
- Camping
- Boats or Buoys
- Communication Systems

LPF series, Front Terminal / Telecom Applications:

- For Standard 19 Inch or 23 Inch Power Cabinets
- Network Connection Equipment
- UPS
- Power Station Systems
- Railway and Marine Systems

Features

- Maintenance-free, no water adding required
- Sealed Valve-Regulated
- Spill proof / leak proof
- Deep discharge protection
- Plate grids from lead-calcium alloy, free of antimony
- No corrosion
- Installs vertically or horizontally
- Low gassing (unless overcharged)
- Good cycling and stationary performance
- Good high rate discharges
- Long shelf life
- Rugged and vibration-resistant



PRIMAGE ENERGY SDN. BHD. (1249964-W)

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