



⊗ Emen Tablo Eng. Co.(Authorized Agency of **LS** in Iran)

## Product Information

### 6V & 12V VRLA Sealed Battery

#### APPLICATIONS

VT series VRLA (Valve Regulated Lead Acid) technic sealed batteries are specially designed for cyclic and standby use, where a weight, available space and durability count.

#### FEATURES

- Capacity range up to 250AH
- Voltage 2V, 6V and 12V
- Low self-discharge rate : less than 3% per month
- High sealed efficiency : more than 98%
- Wide operation temperature : -20°C to 45°C
- Long design life and good discharge & charge performance
- Plate: Positive and Negative grid plate use Pb-Ca alloy
- Container: ABS resin for durability against impact and shock proof
- Compliance IEC 61056
- Approved ISO 9001, ISO 14001, UL and CE

#### Cyclic life

There are a number of factors that affect the length of cyclic life of a VT battery. Major factors are the ambient operating temperature, the discharge rate, the manner in which the battery is recharged, of which the most important is the depth of discharge.

#### Float Life

6V, 12V Series

VT batteries are designed to operate in standby(float) use up to 5 years on a normal service condition in which float charge voltage is maintained between 2.25 and 2.30 volts per cell in an ambient temperature of approximately 25°C(77°C). Figure 7 shows the float life characteristics of VT batteries when discharged once three(3) months up to 100% depth of discharge. In normal float use, where charging voltage is maintained 2.25 to 2.30 volts per cell, gas generated inside a VT battery is recombined into the negative plates, and return to water content of the electrolyte. Electrical capacity therefore is not lost due to "drying-up" of the electrolyte. Through gradual corrosion of the electrodes, the battery will eventually lose capacity and come to an end of life. It should be noted that the process will be accelerated by higher ambient operating temperatures and/of higher charging voltages. When designing a float system, one must bear in mind that length of life will be directly affected by the number of discharge cycles, the depth of discharge, the ambient temperature, and the charging voltage.



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# PRODUCT SPECIFICATIONS

## Applications

### Cyclic Use

- Portable TV/VTR, Tape Recorders
- Medical Instruments
- Cameras and Photographic Equipment
- Portable Test Equipment
- Portable Digital Instrument
- Personal Computers
- Portable Powered Tools
- Computer Systems
- Powered Toys
- Lighting Equipment

### Standby Use

- Fire Alarm & Security Systems
- Computer Backup
- Emergency Lighting
- UPS Systems
- Communications Equipment
- OA/FA/HA Equipment

### For Solar Cell Power System

- Street Lights
- Station Power System
- Portable Power Source

## VT series VRLA sealed battery

The model VT series already comply tested with IEC-60896 part1 and 2, DIN, BS-6290 part4.

Battery Model	Nominal voltage (V)	Rated capacity 25°C / 77°F (Ah)		Dimensions								Weight (approx.) (kg/lb)		Terminal Type	External Shape
		20HR 1.75V/CELL	10HR 1.75V/CELL	Length (±1) (mm/inch)	Width (±1) (mm/inch)	Height (±2) (mm/inch)	Total Height (±2) (mm/inch)								
VT 6012	6V	1.2AH	1.1	97	3.82	24	0.94	52	2.05	57	2.24	0.35	0.77	FASTEN	C
VT 604	6V	4AH	3.7	70	2.76	47	1.85	101	3.98	106	4.17	0.77	1.70	FASTEN	A
VT 6065	6V	6.5AH	6.04	85	3.35	47	1.85	99	3.90	104	4.09	0.95	2.09	FASTEN	B
VT 607	6V	7AH	6.5	151	5.94	34	1.34	94	3.70	99	3.90	1.15	2.54	FASTEN	B
VT 610	6V	10AH	9.3	151	5.94	51	2.01	94	3.70	99	3.90	1.72	3.79	FASTEN	C
VT 12012	12V	1.2AH	1.1	97	3.82	43	1.69	52	2.05	57	2.24	0.57	1.26	FASTEN	E
VT 1202	12V	2AH	1.8	178	7.01	35	1.38	61	2.40	66	2.60	0.90	1.98	FASTEN	E
VT 1203	12V	3AH	2.8	134	5.28	33	1.30	98	3.86	103	4.06	1.34	2.95	FASTEN	D
VT 1204	12V	4AH	3.7	89	3.50	69	2.72	101	3.98	106	4.17	1.55	3.42	FASTEN	C
VT 1205	12V	5AH	4.6	90	3.54	70	2.76	102	4.02	107	4.21	1.60	3.53	FASTEN	E
VT 1205 (L)	12V	5AH	4.6	195	7.68	47	1.85	70.5	2.78	74	2.91	1.60	3.53	FASTEN	E
VT 1207	12V	7AH	6.5	151	5.94	65	2.56	94	3.70	99	3.90	2.03	4.48	FASTEN	E
VT 1208	12V	8AH	7.4	151	5.94	65	2.56	94	3.70	99	3.90	2.30	5.07	FASTEN	E
VT 1210	12V	10AH	9.3	151	5.94	65	2.56	94	3.70	99	3.90	3.55	7.83	FASTEN	E
VT 1217	12V	17AH	15.8	181	7.13	77	3.03	167	6.57	167	6.57	5.00	11.02	BOLT&NUT	F
VT 1221W	12V	21W(CELL)/15MIN		48	1.89	139	5.47	102.5	4.04	103.5	4.07	7.50	16.53	FASTEN	E
VT 1224	12V	24AH	22	168	6.61	177	6.97	126	4.96	126	4.96	8.00	17.64	BOLT&NUT	D
VT 1224 (S)	12V	24AH	22	165	6.50	125	4.92	175	6.89	175	6.89	8.00	17.64	BOLT&NUT	I

Battery Model	Nominal Voltage (V)	Rated Capacity 25°C / 77°F (Ah)		Dimensions								Weight (approx.) (kg/lb)		Terminal Type	External Shape
		10HR 1.80V/CELL	1HR 1.60V/CELL	Length (±1) (mm/inch)	Width (±1) (mm/inch)	Height (±2) (mm/inch)	Total Height (±2) (mm/inch)								
VT 1231	12V	31AH	20.2	166	6.54	129	5.08	155	6.10	179	7.05	10.07	23.59	BOLT & NUT	H
VT 1240	12V	40AH	26	197	7.76	166	6.54	175	6.89	175	6.89	13.00	28.66	BOLT & NUT/ SCREW	I
VT 1265	12V	65AH	42.3	350	13.78	166	6.54	175	6.89	175	6.89	19.00	41.89	BOLT & NUT/ SCREW	C
VT 1270	12V	70AH	45.5	350	13.78	166	6.54	175	6.89	175	6.89	22.00	48.5	BOLT & NUT/ SCREW	C
VT 1280	12V	80AH	52	331	13.03	176	6.93	215	8.46	215	8.46	25.00	55.11	BOLT & NUT/ SCREW	C
VT 1290	12V	90AH	58.5	331	13.03	176	6.93	215	8.46	215	8.46	28.00	61.73	BOLT & NUT/ SCREW	K
VT 12100	12V	100AH	65	331	13.03	176	6.93	215	8.46	215	8.46	27.50	60.63	BOLT & NUT/ SCREW	C
VT 12120	12V	120AH	78	407	16.02	174	6.85	209	8.23	233	9.17	31.00	68.34	BOLT & NUT/ SCREW	C
VT 12150	12V	150AH	97.5	483	19.02	170	6.69	241	9.49	241	9.49	42.50	93.7	BOLT & NUT	F
VT 12200	12V	200AH	130	522	20.55	240	9.45	219	8.62	219	8.62	55.00	121.25	BOLT & NUT	F

### HT series High Rate Battery

Battery Model	Nominal Voltage (V)	Rated Capacity 25°C/77°F(Ah)		Dimensions								Weight (approx.) (kg/lb)		Terminal Type	External Shape
		20HR 1.75V/CELL	10HR 1.75V/CELL	Length (±1) (mm/inch)		Width (±1) (mm/inch)		Height (±2) (mm/inch)		Total Height (±2) (mm/inch)					
VT 1207	12V	7AH	6.5	151	5.94	65	2.56	94	3.70	99	3.90	2.03	4.48	FASTEN	E
VT 1208	12V	9AH	8.4	151	5.94	65	2.56	94	3.70	99	3.90	2.55	5.62	FASTEN	E
VT 1210	12V	12AH	11.2	151	5.94	65	2.56	94	3.70	99	3.90	3.75	8.27	FASTEN	E
VT 1217	12V	17AH	15.8	181	7.13	77	3.03	167	6.57	167	6.57	5.30	11.68	BOLT & NUT	F
VT 1224	12V	24AH	22	168	6.61	177	6.97	126	4.96	126	4.96	8.00	17.64	BOLT & NUT	D

Battery Model	Nominal Voltage (V)	Rated Capacity 25°C/77°F(Ah)		Dimensions								Weight (approx.) (kg/lb)		Terminal Type	External Shape
		10HR 1.80V/CELL	1HR 1605V/CELL	Length (±1) (mm/inch)		Width (±1) (mm/inch)		Height (±2) (mm/inch)		Total Height (±2) (mm/inch)					
VT 1245	12V	45AH	29.3	198	7.80	166	6.54	170	6.69	170	6.69	14.80	32.62	BOLT & NUT/ SCREW	I
VT 1265	12V	65AH	42.3	350	13.78	173	6.81	179	7.05	179	7.05	23.50	51.79	BOLT & NUT/ SCREW	C
VT 1275	12V	75AH	48.8	261	10.28	167	6.57	221	8.70	224	8.82	26.00	57.30	BOLT & NUT/ SCREW	C
VT 1285	12V	85AH	55.3	350	13.78	168	6.61	179	7.05	179	7.05	24.60	54.22	BOLT & NUT/ SCREW	C
VT 1290	12V	90AH	58.5	305	12.01	172	6.77	208	8.19	213	8.39	26.60	58.63	BOLT & NUT/ SCREW	K
VT 12100	12V	100AH	65	329	12.95	173	6.81	216	8.50	223	8.78	29.90	65.90	BOLT & NUT/ SCREW	C
VT 12120	12V	120AH	78	407	16.02	172	6.77	224	8.82	232	9.13	39.00	85.96	BOLT & NUT/ SCREW	C
VT 12150	12V	150AH	97.5	483	19.02	171	6.73	240	9.45	240	9.45	49.40	108.88	BOLT & NUT	F
VT 12200	12V	200AH	130	522	20.55	238	9.37	218	8.58	223	8.78	59.00	130.04	BOLT & NUT	F
VT 12250	12V	250V	163	521	20.51	269	10.59	220	8.66	225	8.86	69.60	153.40	BOLT & NUT	F