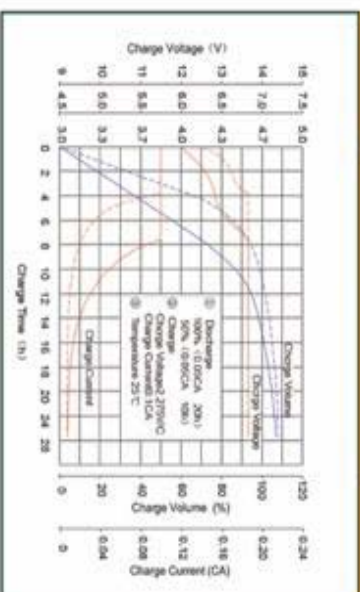
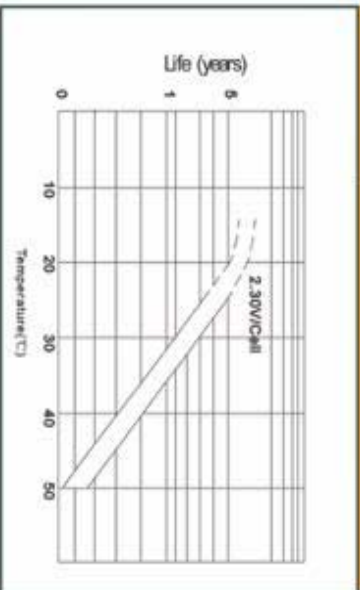
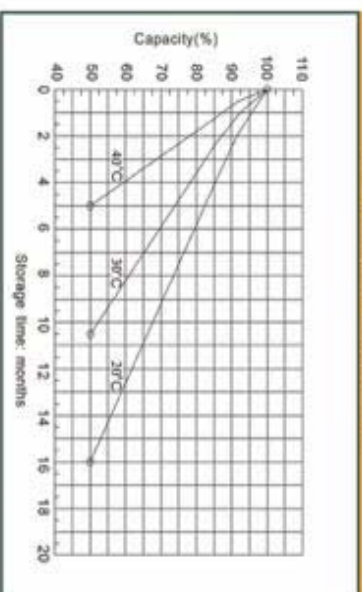
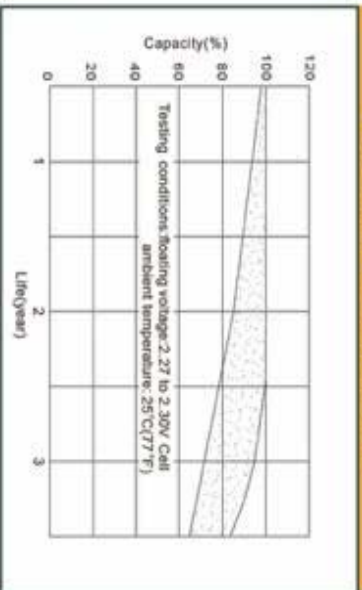
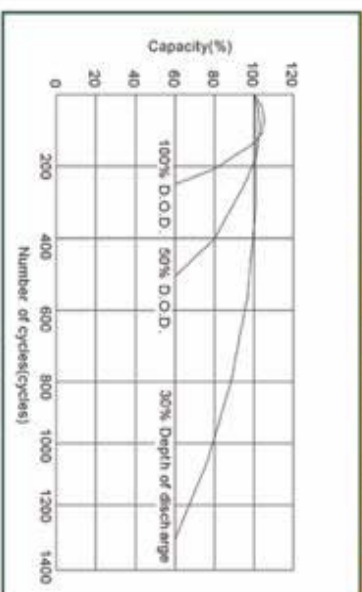
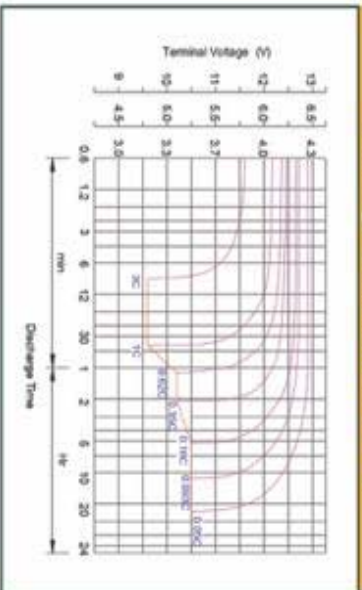


Time	Constant Current (Amp) / Constant Power (Watt) Discharge Table @ 25 °C (77°F)												
	5min	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr	
9.60V	A	4.50	2.95	2.19	1.44	0.75	0.44	0.32	0.26	0.22	0.14	0.12	0.06
	W	53.10	33.30	25.20	15.30	8.60	5.10	3.72	2.99	2.54	1.67	1.37	0.75
10.20V	A	4.13	2.82	2.01	1.36	0.70	0.42	0.31	0.25	0.22	0.14	0.12	0.06
	W	49.90	31.60	23.70	15.20	8.10	4.90	3.62	2.90	2.49	1.65	1.34	0.73
10.50V	A	3.76	2.64	1.88	1.32	0.68	0.41	0.31	0.24	0.21	0.14	0.12	0.06
	W	48.20	30.60	22.70	15.00	7.90	4.80	3.56	2.75	2.47	1.63	1.33	0.72
10.80V	A	3.61	2.52	1.75	1.29	0.66	0.40	0.30	0.23	0.20	0.14	0.11	0.06
	W	42.30	29.70	21.80	14.90	7.70	4.70	3.52	2.72	2.36	1.56	1.30	0.71
11.10V	A	3.34	2.38	1.63	1.25	0.64	0.39	0.29	0.23	0.20	0.13	0.11	0.06
	W	40.90	28.70	20.80	14.80	7.60	4.60	3.41	2.71	2.31	1.51	1.28	0.70

**UP-121.3**  
12V1.3Ah





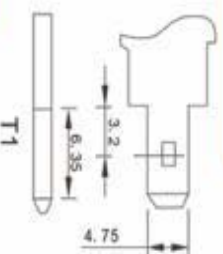
**UP-121.3**  
12V1.3Ah



Outer dimensions (mm)



Terminal Type (mm)



**UP General Series Battery**

UP General Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology. High performance plates and electrolyte to give extra power output for common power backup system.

UP series Batteries are the general purpose batteries with 5 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.

**General Features**

- \* Safety Sealing
- \* Non-spillable construction
- \* High Reliability and Stability
- \* Sealed and Maintenance-free
- \* Safety and Quality certification
- \* Long Life and low self-discharge design

**Application**

- \*Emergency Power System
- \*Communication equipment
- \*Telecommunication systems
- \*Uninterruptible power supply
- \*Electric bicycle and wheelchairs, etc.
- \*Power tools
- \*Alarm system
- \*Marine equipment
- \*Fire and Security System

**Construction**

- \*Positive ..... Lead dioxide
- \*Electrolyte ..... Sulfuric acid
- \*Separator ..... Fiber glass
- \*Container ..... ABS (UL94-HB), Flammability Resistance of
- \*Negative ..... Lead

**Specification**

Battery Model	Nominal Voltage		12V	
	Rated capacity(20 Hour rate)		1.3Ah	
Dimensions	Length	Width	Height	Total Height
	98mm (3.86 inches)	45mm(1.77 inches)	52mm(2.05 inches)	59mm (2.32inches)
Approx Weight	0.50kg(1.10lbs)±3%			
Capacity 25 °C (77°F)	20 hour (0.065A,10.8V)	10 hour (0.12A,10.5V)	5 Hour (0.22A,10.2V)	1 Hour (0.78A,9.6V)
	1.30Ah	1.20Ah	1.10Ah	0.78Ah
Max. discharge current	13A (5 Sec.)			
Internal Resistance	Full charged at 25 °C : Approx 110 mΩ			
Capacity affected by Temp. (20 HR)	40°C (104 °F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge at 25°C (77°F)	After 3 months storage		After 6 months storage	
	91%		82%	
Charge method 25°C (77°F)	Cycle Use		Float Use	
	14.40-14.70V (initial charging current less than0.52A)		13.50-13.80V	

**UnitexPower**

UnitexPower Battery Co.,LTD

Design in Germany



# UP-124.5

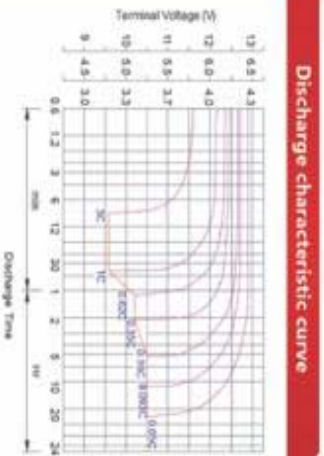
# 12V4.5AH

## UP General Series Battery

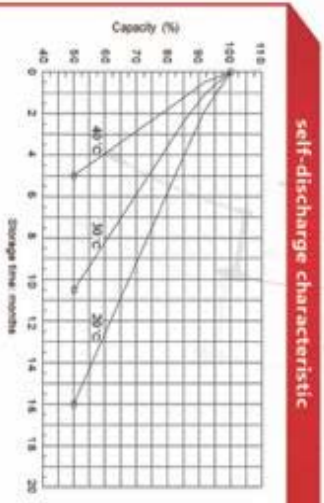
### Constant Current (Amp) and Constant Power (Watt) Discharge Table at 25 °C

Time	5 min		10 min		15 min		30min		1hr		2hr		3hr		4hr		5hr		8hr		10hr		20hr		
	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	
9.60 v	A	16.20	10.60	7.88	5.18	2.70	1.58	1.16	0.93	0.79	0.52	0.43	0.23												
	W	191.10	120.00	90.80	54.90	31.10	18.20	13.41	10.76	9.13	6.02	4.93	2.70												
10.20 v	A	14.90	10.20	7.24	4.91	2.53	1.51	1.13	0.90	0.77	0.51	0.42	0.23												
	W	179.80	113.60	85.30	54.60	29.30	17.50	13.03	10.43	8.96	5.93	4.84	2.62												
10.50 v	A	13.50	9.50	6.75	4.76	2.45	1.48	1.11	0.86	0.77	0.51	0.41	0.22												
	W	173.60	110.30	81.60	54.00	28.40	17.20	12.81	9.90	8.91	5.87	4.80	2.61												
10.80 v	A	13.00	9.08	6.30	4.63	2.37	1.44	1.09	0.84	0.73	0.49	0.40	0.22												
	W	152.20	106.90	78.60	53.80	27.60	16.80	12.66	9.78	8.51	5.63	4.69	2.55												
11.10 v	A	12.00	8.55	5.85	4.50	2.29	1.41	1.03	0.82	0.70	0.48	0.39	0.21												
	W	147.20	103.30	74.80	53.40	27.20	16.70	12.28	9.75	8.33	5.44	4.59	2.53												

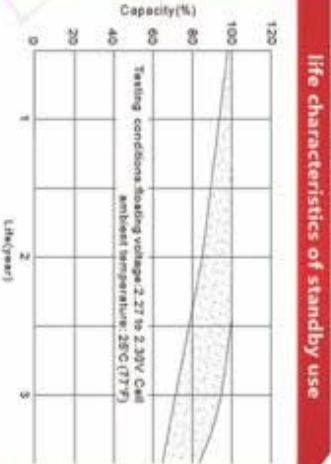
### Outer dimensions (mm)



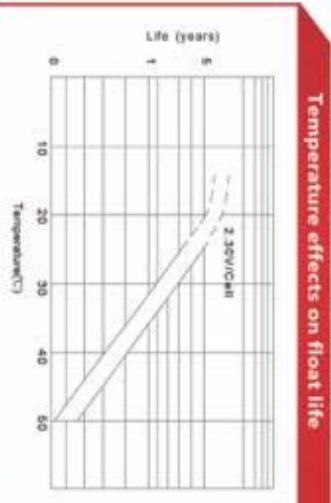
Discharge characteristic curve



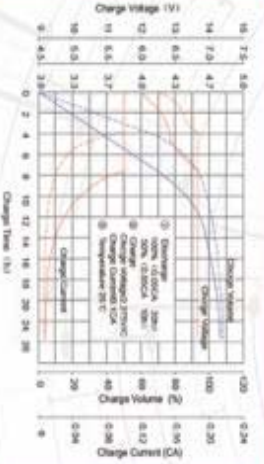
self-discharge characteristic



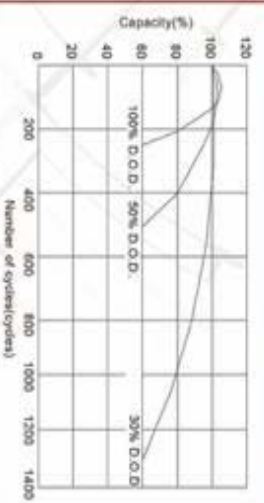
life characteristics of standby use



Temperature effects on float life



Charge characteristic Curve for standby use



Cycle service life in relation to depth of discharge



### UP-124.5

### 12V4.5AH



#### Terminal Type (mm)



#### Outer dimensions (mm)



#### UP General Series Battery

UP General Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. UP General Series Batteries are the general purpose batteries with 5 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.

#### Application

- Emergency power system
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Electric bicycle and wheelchairs, etc.
- Power tools
- Alarm system
- Marine equipment
- Fire and security system

#### General Features

- Safety sealing
- Non-spillable construction
- High reliability and stability
- Sealed and Maintenance-free
- Safety and quality certification
- Long Life and low self-discharge design

#### Construction

- Positive ..... Lead dioxide
- Electrolyte ..... Sulfuric acid
- Separator ..... Fiber glass
- Container ..... ABS(UL94-HB)
- Negative ..... Lead
- Safety Valve ..... EPDR
- Terminal ..... Copper

#### Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		4.5Ah	
Dimensions	Length 90 mm (3.54 inches)	Width 70 mm (2.76 inches)	Height 101 mm (3.98 inches)	Total Height 106 mm (4.17 inches)
Approx Weight	1.50 kg (3.31 lbs) ±3%			
Capacity 25°C (77°F)	20 Hour (0.225A, 10.8V) 4.5Ah	10 Hour (0.41A, 10.5V) 4.1Ah	5 Hour (0.77A, 10.2V) 3.85Ah	1 Hour (2.7A, 9.6V) 2.7Ah
Max discharge current	45A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 33 mΩ			
Capacity affected by Temp.(20HR)	40°C (104°F) 102%	25°C (77°F) 100%	0°C (32°F) 85%	-15°C (5°F) 65%
Self Discharge at 25°C (77°F)	After 3 months storage 91%		After 6 months storage 82%	After 12 months storage 64%
Charge method 25°C (77°F)	Cycle Use 14.40-14.70V (initial charging current less than 1.35A)		Float Use 13.50-13.80V	

# UP-1207

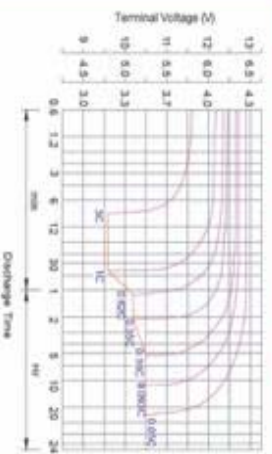
# 12V07AH

## UP General Series Battery

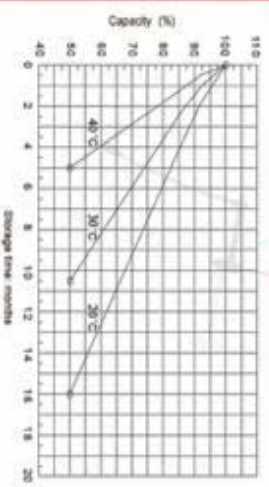
### Constant Current (Amp) and Constant Power (Watt) Discharge Table at 25 °C

Time	5 min	10 min	15 min	30min	1hr	2 hr	3 hr	4 hr	5 hr	8hr	10hr	20hr	
9.60 v	A	25.20	16.50	12.30	8.05	4.20	2.45	1.80	1.45	1.23	0.81	0.66	0.36
	W	297.20	186.70	141.20	85.50	48.40	28.40	20.65	16.74	14.20	9.36	7.67	4.20
10.20 v	A	23.10	15.80	11.30	7.64	3.94	2.35	1.75	1.40	1.20	0.80	0.65	0.35
	W	279.70	176.80	132.70	84.90	45.50	27.20	20.27	16.22	13.94	9.22	7.53	4.08
10.50 v	A	21.00	14.80	10.50	7.41	3.82	2.30	1.72	1.33	1.20	0.79	0.64	0.35
	W	270.10	171.50	126.90	84.00	44.20	26.70	19.92	15.40	13.85	9.13	7.47	4.05
10.80 v	A	20.20	14.10	9.80	7.20	3.69	2.25	1.69	1.31	1.14	0.77	0.63	0.35
	W	236.80	166.30	122.20	83.70	42.90	26.10	19.69	15.21	13.24	8.75	7.29	3.97
11.10 v	A	18.70	13.30	9.10	7.00	3.56	2.19	1.60	1.28	1.09	0.75	0.61	0.33
	W	229.00	160.70	116.40	83.10	42.30	26.00	19.10	15.17	12.95	8.46	7.15	3.94

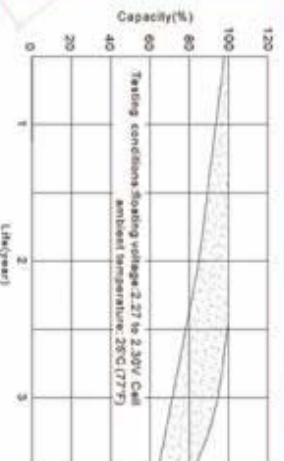
### Outer dimensions (mm)



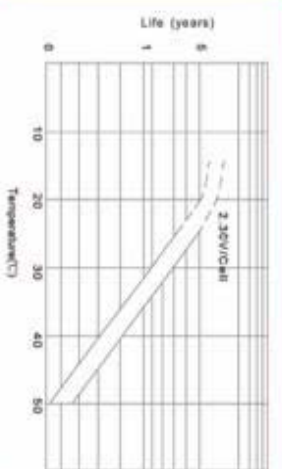
### self-discharge characteristic



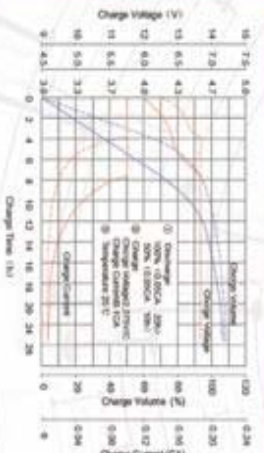
### life characteristics of standby use



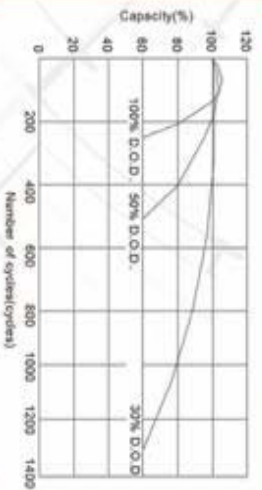
### Temperature effects on float life



### Charge characteristic Curve for standby use



### Cycle service life in relation to depth of discharge



# UnitexPower

UnitexPower Battery Co.,LTD

Design in Germany





# UP-1207

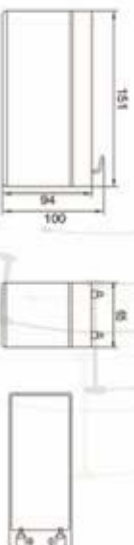
# 12V07AH



### Terminal Type (mm)



### Outer dimensions (mm)



### UP General Series Battery

UP General Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology. High performance plates and electrolyte to give extra power output for common power backup system. UP General Series Batteries are the general purpose batteries with 5 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.

### Application

- Emergency power system
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Electric bicycle and wheelchairs, etc.
- Power tools
- Alarm system
- Marine equipment
- Fire and security system

### General Features

- Safety sealing
- Non-spillable construction
- High reliability and stability
- Sealed and Maintenance-free
- Safety and quality certification
- Long Life and low self-discharge design

### Construction

- Positive ..... Lead dioxide
- Electrolyte ..... Sulfuric acid
- Separator ..... Fiber glass
- Container ..... ABS(UL94-HB)
- Negative ..... Lead
- Safety Valve ..... EPDR
- Terminal ..... Copper

### Specification

Battery Model	Nominal Voltage		12V
	Rated capacity (20 Hour rate)		7Ah
Dimensions	Length	Width	Height
	151 mm (5.94 inches)	65 mm (2.56 inches)	94 mm (3.7 inches)
Approx Weight	2.10 kg (4.63 lbs) ±3%		Total Height
	100 mm (3.94inches)		
Capacity 25°C (77°F)	20 Hour (0.35A, 10.8V)	10 Hour (0.64A, 10.5V)	5 Hour (1.2A, 10.2V)
	7.0Ah	6.4Ah	6.0Ah
Max discharge current	70A (5 Sec.)		
Internal Resistance	Full charged at 25°C: Approx 31 mΩ		
Capacity affected by Temp.(20HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)
	102%	100%	85%
Self Discharge at 25°C (77°F)	After 3 months storage		After 6 months storage
	91%		62%
Charge method 25°C (77°F)	Cycle Use		Float Use
	14.40-14.70V (Initial charging current less than 2.10A)		13.50-13.80V

## UP-1209

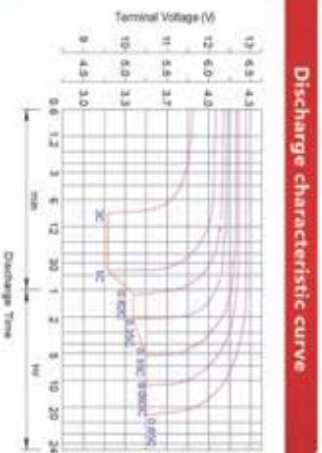
## 12V9AH

### UP General Series Battery

#### Constant Current (Amp) and Constant Power (Watt) Discharge Table at 25 °C

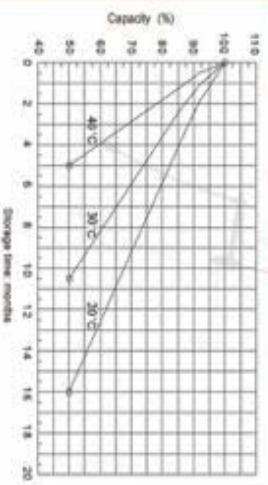
Time	5 min	10 min	15 min	30min	1hr	2 hr	3 hr	4 hr	5 hr	8hr	10hr	20hr	
9.60 V	A	32.40	21.20	15.80	10.35	5.40	3.15	2.32	1.86	1.58	1.04	0.85	0.47
	W	382.10	240.00	181.50	109.80	62.30	36.50	26.81	21.53	18.26	12.04	9.86	5.40
10.20 V	A	28.70	20.30	14.50	9.83	5.07	3.02	2.25	1.80	1.55	1.02	0.84	0.45
	W	359.60	227.30	170.60	109.10	58.50	35.00	26.06	20.85	17.93	11.85	9.68	5.25
10.50 V	A	27.00	19.00	13.50	9.52	4.91	2.96	2.21	1.71	1.54	1.01	0.83	0.45
	W	347.20	220.50	163.10	108.00	56.80	34.30	25.61	19.80	17.81	11.74	9.60	5.25
10.80 V	A	26.00	18.20	12.60	9.26	4.74	2.89	2.18	1.68	1.46	0.99	0.81	0.44
	W	304.50	213.80	157.10	107.60	55.10	33.60	25.31	19.56	17.03	11.25	9.38	5.10
11.10 V	A	24.00	17.10	11.70	9.00	4.57	2.81	2.08	1.65	1.40	0.98	0.79	0.43
	W	294.40	206.60	149.60	106.90	54.40	33.40	24.56	19.50	16.85	10.87	9.19	5.06

### Outer dimensions (mm)

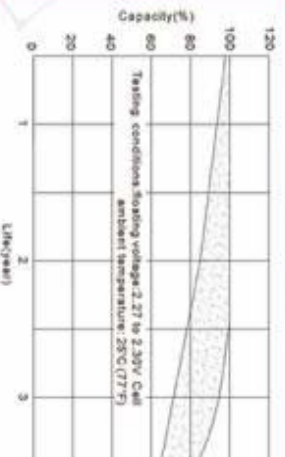


Discharge characteristic curve

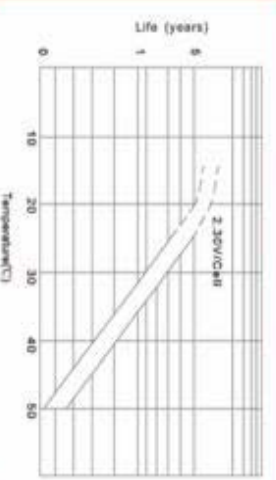
self-discharge characteristic



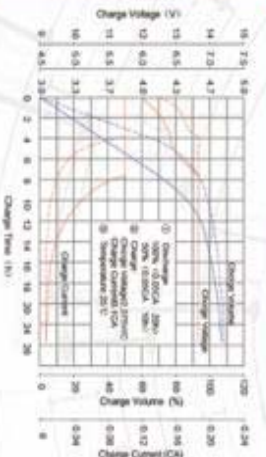
### life characteristics of standby use



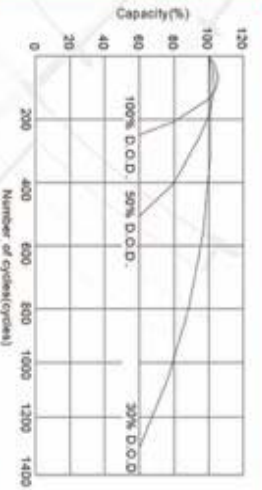
### Temperature effects on float life



### Charge characteristic Curve for standby use



### Cycle service life in relation to depth of discharge



# UP-1209

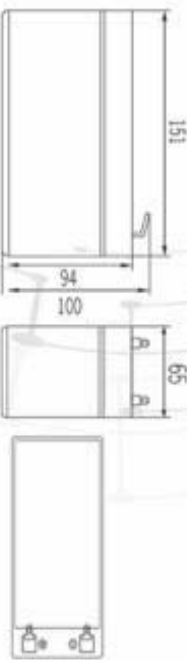
# 12V9AH



### Terminal Type (mm)



### Outer dimensions (mm)



### UP General Series Battery

UP General Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system.  
UP Series Batteries are the general purpose batteries with 5 years floating design life at 25°C.  
Meet with IEC, BS, JIS and Eurobat standard.

### Application

- Emergency power system
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Electric bicycle and wheelchairs, etc.
- Power tools
- Alarm system
- Marine equipment
- Fire and security system

### General Features

- Safety sealing
- Non-spillable construction
- High reliability and stability
- Sealed and Maintenance-free
- Safety and quality certification
- Long Life and low self-discharge design

### Construction

- Positive ..... Lead dioxide
- Electrolyte ..... Sulfuric acid
- Separator ..... Fiber glass
- Container ..... ABS(UL94-HB)
- Negative ..... Lead
- Safety Valve ..... EPDR
- Terminal ..... Copper

### Specification

Battery Model	Nominal Voltage	Rated capacity (20 Hour rate)	12V	9Ah					
Dimensions	Length	151 mm (5.94 inches)	Width	65 mm (2.56 inches)	Height	94 mm (3.7 inches)	Total Height	100 mm (3.94 inches)	
Approx. Weight	20 Hour (0.45A, 10.8V)	10 Hour (0.83A, 10.5V)	5 Hour (1.53A, 10.2V)	1 Hour (5.4A, 9.6V)	Capacity 25°C (77°F)	9.0Ah	8.3Ah	7.65Ah	5.4Ah
Max. discharge current	90A (5 Sec.)								
Internal Resistance	Full charged at 25°C: Approx 20m Ω								
Capacity affected by Temp.(20 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)					
Self Discharge at 25°C (77°F)	102%	100%	85%	85%					
Charge method	After 3 months storage	After 6 months storage	After 12 months storage	Cycle Use	Float Use				
25°C (77°F)	91%	82%	64%	14.40-14.70V(initial charging current less than 2.7A)	13.50-13.80V				

# UnitexPower

## UnitexPower Battery Co.,LTD

Design in Germany





# UP-1218

# 12V18AH

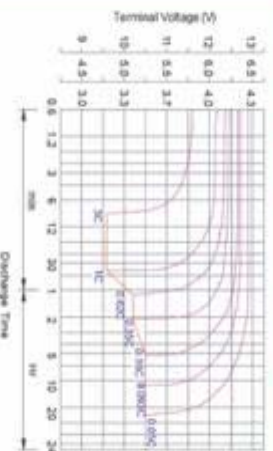
## UP General Series Battery

### Constant Current (Amp) and Constant Power (Watt) Discharge Table at 25 °C

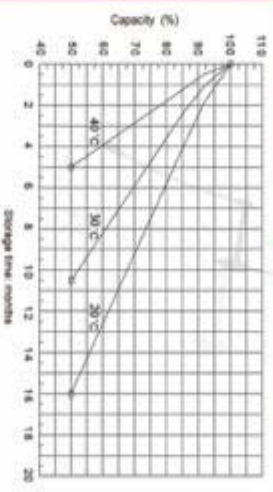
Time	5 min		10 min		15 min		30min		1hr		2hr		3hr		4hr		5hr		8hr		10hr		20hr		
	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	
9.60 v	64.80	42.50	42.50	31.50	20.70	10.80	6.30	4.64	3.72	3.16	2.08	1.70	0.93												
10.20 v	764.20	480.00	363.00	219.70	124.50	72.90	53.63	43.05	36.53	24.08	19.72	10.80													
10.50 v	59.40	40.60	28.90	19.70	10.14	6.04	4.50	3.60	3.10	2.05	1.67	0.91													
10.80 v	719.20	454.50	341.20	218.30	117.00	70.00	52.12	41.70	35.85	23.70	19.35	10.50													
11.10 v	54.10	38.00	27.00	19.00	9.81	5.93	4.42	3.42	3.06	2.03	1.66	0.90													
	694.50	441.00	328.30	216.00	113.50	68.60	51.22	39.60	35.63	23.48	19.20	10.43													
	52.00	36.30	25.20	18.50	9.48	5.77	4.35	3.36	2.93	1.97	1.61	0.88													
	609.00	427.50	314.20	215.20	110.30	67.20	50.63	39.11	34.05	22.50	18.75	10.20													
	48.00	34.20	23.40	18.00	9.15	5.63	4.13	3.30	2.80	1.92	1.58	0.86													
	588.70	413.20	299.30	213.80	108.80	66.70	49.13	39.00	33.30	21.75	18.37	10.13													

### Outer dimensions (mm)

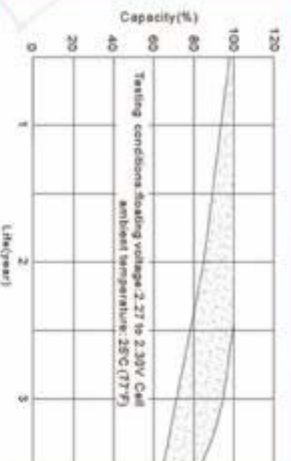
#### Discharge characteristic curve



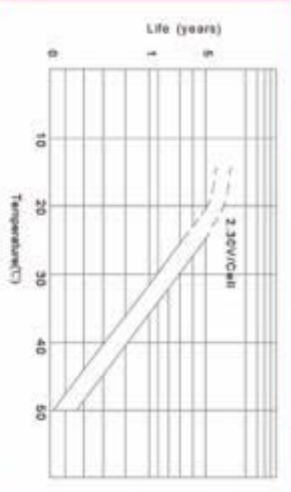
#### self-discharge characteristic



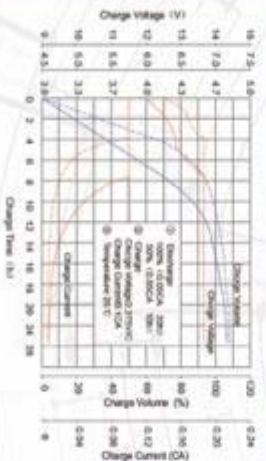
#### Life characteristics of standby use



#### Temperature effects on float life



#### Charge characteristic Curve for standby use



#### Cycle service life in relation to depth of discharge



# UnitexPower

UnitexPower Battery Co.,LTD



Design in Germany



Design in Germany

# UnitexPower

## UnitexPower Battery Co.,LTD

# UP-1218

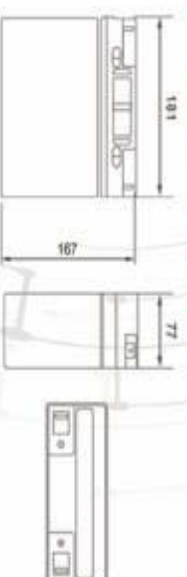
# 12V18AH



### Terminal Type (mm)



### Outer dimensions (mm)



### UP General Series Battery

UP General Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology. High performance plates and electrolyte to give extra power output for common power backup system.

UP General Series Batteries are the general purpose batteries with 5 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.

### Application

- Emergency power system
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Electric bicycle and wheelchairs, etc.
- Power tools
- Alarm system
- Marine equipment
- Fire and security system

### General Features

- Safety sealing
- Non-spillable construction
- High reliability and stability
- Sealed and Maintenance-free
- Safety and quality certification
- Long Life and low self-discharge design

### Construction

- Positive ..... Lead dioxide
- Electrolyte ..... Sulfuric acid
- Separator ..... Fiber glass
- Container ..... ABS(UL94-HB)
- Negative ..... Lead
- Safety Valve ..... EPDR
- Terminal ..... Copper

### Specification

Battery Model	Nominal Voltage		12V
	Rated capacity (20 Hour rate)		18Ah
Dimensions	Length	Width	Height
	181 mm (7.13 inches)	77 mm (3.03 inches)	167 mm (6.57 inches)
Approx Weight	5.00 kg (11.02 lbs) ±3%		
Capacity 25°C (77°F)	20 Hour (0.09A, 10.8V)	10 Hour (166A, 10.5V)	1 Hour (10.8A, 9.6V)
	18Ah	16.5Ah	10.9Ah
Max. discharge current	180A (5 Sec.)		
Internal Resistance	Full charged at 25°C: Approx 13 mΩ		
Capacity affected by Temp. (20HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)
	102%	100%	85%
Self Discharge at 25°C (77°F)	After 3 months storage		After 6 months storage
	91%		82%
Charge method 25°C (77°F)	Cycle Use		Float Use
	14,40-14,70V (initial charging current less than 2, 10A)		13,50-13,80V

# UP-12228

# 12V28AH

## Deep Cycle

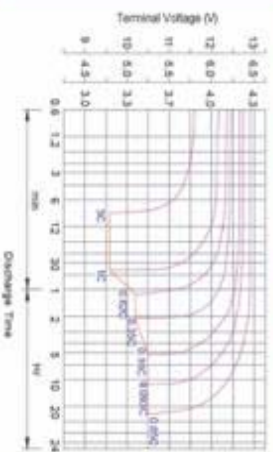
### UPD Deep Cycle Series Battery

#### Constant Current (Amp) and Constant Power (Watt) Discharge Table at 25 °C

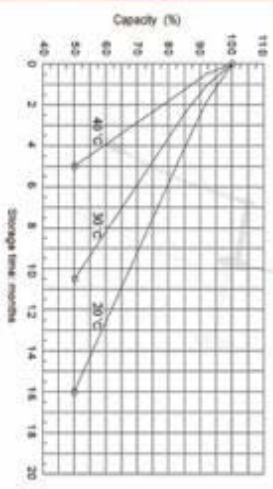
Time	5 min	10 min	15 min	30min	1hr	2 hr	3 hr	4 hr	5 hr	8hr	10hr	20hr	
9.60 v	A	100.80	66.08	49.00	32.20	16.80	9.80	7.21	5.79	4.91	3.24	20.65	1.45
	W	1188.80	746.70	564.70	341.18	193.70	113.40	83.40	67.00	56.80	37.50	30.70	16.80
10.20 v	A	92.40	63.23	45.03	30.57	15.77	9.40	7.00	5.60	4.82	3.19	2.60	1.41
	W	1118.80	707.00	530.80	339.50	182.00	108.90	81.10	64.90	55.80	36.90	30.10	16.30
10.50 v	A	84.12	59.08	42.00	29.63	15.28	9.22	6.88	5.32	4.80	3.15	2.58	1.40
	W	1080.30	686.00	507.50	336.00	176.60	106.80	79.70	61.60	55.40	36.50	29.90	16.20
10.80 v	A	80.84	56.47	39.20	28.82	14.75	8.98	6.77	5.23	4.55	3.07	2.51	1.37
	W	947.30	665.00	489.80	334.80	171.50	104.50	78.80	60.80	53.00	35.00	29.20	15.90
11.10 v	A	74.76	53.20	36.04	28.00	14.23	8.75	6.42	5.13	4.35	2.99	2.45	1.33
	W	915.80	642.80	465.50	332.50	169.20	103.80	76.40	60.70	51.80	33.80	28.60	15.80

### Outer dimensions (mm)

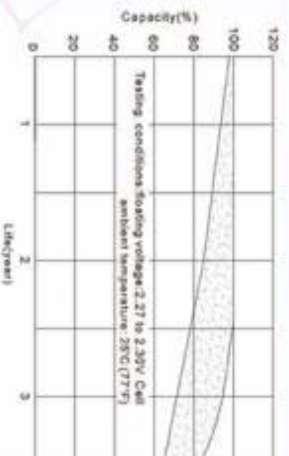
#### Discharge characteristic curve



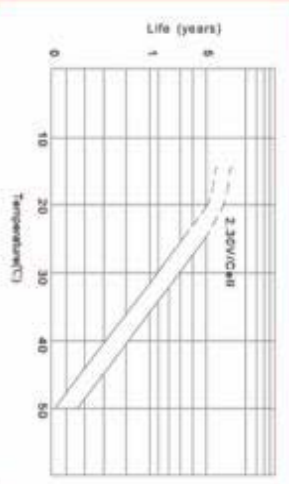
#### self-discharge characteristic



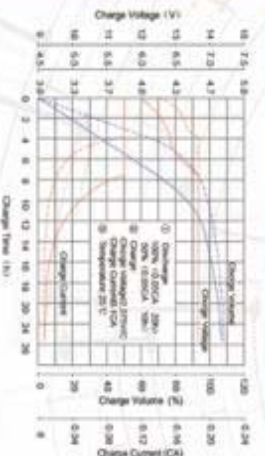
#### life characteristics of standby use



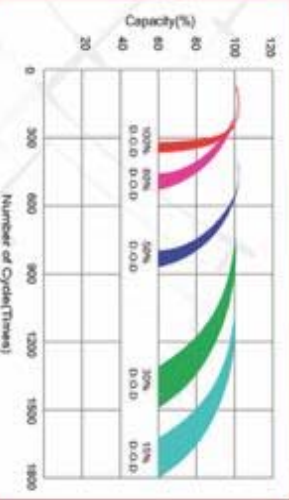
#### Temperature effects on float life



#### Charge characteristic Curve for standby use



#### Cycle service life in relation to depth of discharge



# UnitexPower

## UnitexPower Battery Co.,LTD

Design in Germany





Design in Germany

# UnitexPower

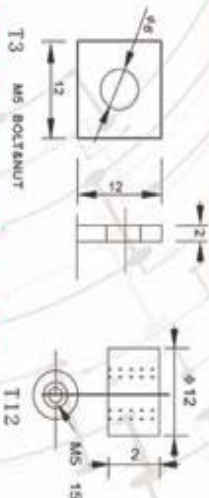
UnitexPower Battery Co.,LTD

## UP-1218

## 12V18AH



### Terminal Type (mm)



### Outer dimensions (mm)



### UP General Series Battery

UP General Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology. High performance plates and electrolyte to give extra power output for common power backup system. UP General Series Batteries are the general purpose batteries with 5 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.

### Application

- Emergency power system
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Electric bicycle and wheelchairs, etc.
- Power tools
- Alarm system
- Marine equipment
- Fire and security system

### General Features

- Safety sealing
- Non-spillable construction
- High reliability and stability
- Sealed and Maintenance-free
- Safety and quality certification
- Long Life and low self-discharge design

### Construction

- Positive ..... Lead dioxide
- Electrolyte .....Sulfuric acid
- Separator ..... Fiber glass
- Container ..... ABS(UL94-HB)
- Negative .....Lead
- Safety Valve .....EPDR
- Terminal .....Copper

### Specification

Battery Model	Nominal Voltage		12V
	Rated capacity (20 Hour rate)		18Ah
Dimensions	Length	Width	Height
	181 mm (7.13 inches)	77 mm (3.03 inches)	167 mm (6.57 inches)
Approx Weight	5.00 kg (11.02 lbs) ±3%		
Capacity 25°C (77°F)	20 Hour (0.09A,10.8V) 18Ah	10 Hour ( 1.66A,10.5V) 16.6Ah	5 Hour ( 3.6A,10.2V) 15.3Ah
Max discharge current	180A (5 Sec.)		
Internal Resistance	Full charged at 25°C: Approx 13 mΩ		
Capacity affected by Temp.(20H-R)	40°C (104°F) 102%	25°C (77°F) 100%	0°C (32°F) 85%
Self Discharge at 25°C (77°F)	After 3 months storage 91%		After 6 months storage 82%
Charge method 25°C (77°F)	Cycle Use 14.40-14.70V (Initial charging current less than 2.10A)		Float Use 13.50-13.80V

# UP-1242

# 12V42AH

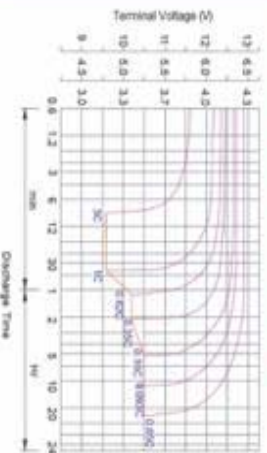
## Deep Cycle

### UPD Deep Cycle Series Battery

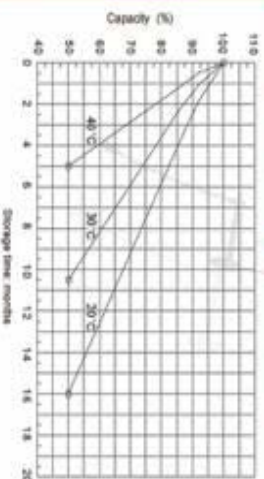
#### Constant Current (Amp) and Constant Power (Watt) Discharge Table at 25 °C

Time	5 min	10 min	15 min	30min	1hr	2 hr	3 hr	4 hr	5 hr	8hr	10hr	20hr	
9.60 v	A	141.00	93.00	75.00	50.00	26.00	15.00	11.30	8.80	7.30	5.10	4.60	2.50
	W	1454.00	992.00	802.00	539.00	285.00	168.00	125.90	99.00	82.50	59.00	53.40	29.00
10.20 v	A	136.00	84.00	70.00	48.00	25.00	15.00	11.00	8.60	7.10	5.00	4.50	2.40
	W	1458.00	935.00	789.00	538.00	281.00	169.00	127.40	99.80	83.10	58.70	53.20	28.40
10.50 v	A	132.00	75.00	62.00	45.00	24.00	14.00	10.70	8.40	7.00	5.00	4.40	2.40
	W	1442.00	852.00	703.00	516.00	276.00	166.00	125.10	98.80	82.50	58.50	52.60	28.60
10.80 v	A	127.00	71.00	57.00	41.00	23.00	14.00	10.50	8.30	6.90	4.80	4.40	2.40
	W	1428.00	814.00	660.00	479.00	270.00	164.00	123.50	98.20	81.10	57.40	52.30	28.30
11.10 v	A	123.00	66.00	53.00	37.00	22.00	14.00	10.10	8.10	6.70	4.70	4.20	2.20
	W	1395.00	766.00	616.00	432.00	264.00	161.00	120.20	96.40	79.80	56.40	50.50	27.2

### Outer dimensions (mm)

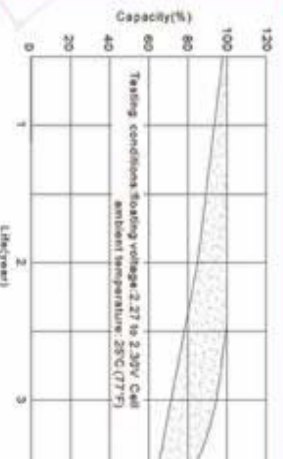


Discharge characteristic curve

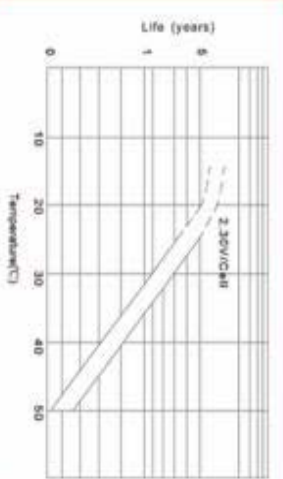


self-discharge characteristic

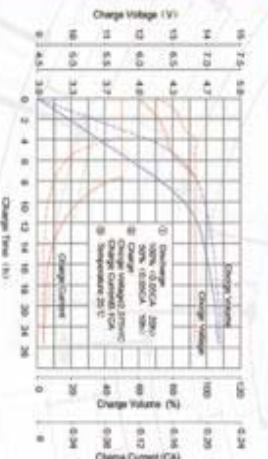
### life characteristics of standby use



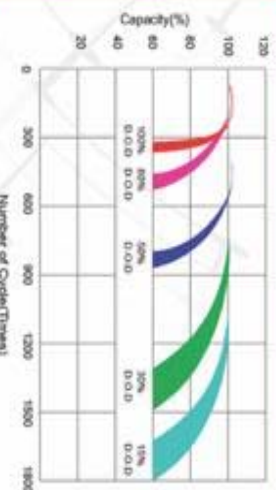
### Temperature effects on float life



### Charge characteristic Curve for standby use



### Cycle service life in relation to depth of discharge



# UnitexPower

UnitexPower Battery Co.,LTD





Design in Germany

# UnitexPower

## UnitexPower Battery Co.,LTD

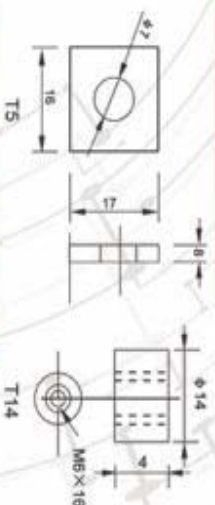
# UP-1242

# 12V42AH

### Deep Cycle



#### Terminal Type (mm)



#### Outer dimensions (mm)



#### UP General Series Battery

UPD series VRLA batteries are superior deep cycle design with thick plates, high-density active materials and slightly stronger electrolyte, which can withstand repeated deep cyclic applications. Deep Cycle Series Batteries are the special design batteries with 10 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.

#### Application

- Emergency power system
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Electric bicycle and wheelchairs, etc.
- Power tools
- Golf cars and buggies
- Marine equipment
- Solar and wind power system

#### General Features

- Safety sealing
- Non-spillable construction
- High power density
- Excellent recovery from deep discharge
- Thick plates and high active materials
- Longer life and low self-discharge design

#### Construction

- Positive ..... Lead dioxide
- Electrolyte ..... Sulfuric acid
- Separator ..... Fiber glass
- Container ..... ABS(UL94-HB)
- Negative ..... Lead
- Safety Valve ..... EPDR
- Terminal ..... Copper

#### Specification

Battery Model	Nominal Voltage		12V
	Rated capacity(10 Hour rate)		42Ah
Dimensions	Length	Width	Total Height
	197 mm (7.76 inches)	166 mm (6.54 inches)	171 mm (6.73 inches)
Approx Weight	10 Hour (4.2A, 10.8V)	5 Hour (7.4A, 10.5V)	1 Hour (24.2A, 9.6V)
	42Ah	37.0Ah	24.2Ah
Max. discharge current	420A (5 Sec.)		
Internal Resistance	Full charged at 25°C: Approx 7.9 mΩ		
Capacity affected by Temp.(10 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)
	102%	100%	85%
Self Discharge at 25°C (77°F)	After 3 months storage		After 6 months storage
	91%		82%
Charge method	Cycle Use		Float Use
	14.1-14.4V (Initial charging current less than 17.6A)		13.50-13.80V

# UP-1265

# 12V65AH

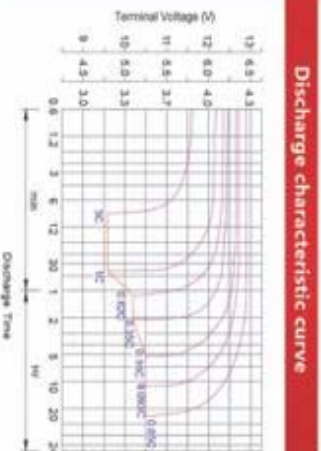
## Deep Cycle

### UPD Deep Cycle Series Battery

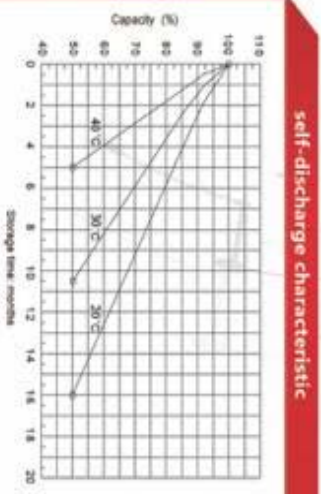
#### Constant Current (Amp) and Constant Power (Watt) Discharge Table at 25 °C

Time	5 min	10 min	15 min	30min	1hr	2 hr	3 hr	4 hr	5 hr	8hr	10hr	20hr	
9.60 V	A	208.00	137.00	111.00	74.10	39.00	22.80	16.70	13.00	10.70	7.61	6.83	3.69
	W	2149.00	1465.80	1185.00	797.00	421.00	250.00	186.00	146.00	122.00	87.00	79.00	42.90
10.20 V	A	202.00	124.00	104.00	70.90	36.70	21.70	16.30	12.70	10.50	7.41	6.70	3.58
	W	2153.00	1382.00	1165.00	795.00	415.00	250.00	188.00	147.00	123.00	87.00	79.00	41.90
10.50 V	A	195.00	111.00	91.00	66.30	35.50	21.20	15.90	12.50	10.40	7.35	6.57	3.58
	W	2130.00	1259.00	1039.00	763.00	411.00	246.00	185.00	146.00	122.00	86.00	78.00	42.30
10.80 V	A	182.00	104.00	85.00	61.10	34.30	20.70	15.50	12.30	10.10	7.15	6.50	3.51
	W	2109.00	1203.00	975.00	708.00	389.00	242.00	182.00	145.00	120.00	85.00	77.00	41.80
11.10 V	A	162.00	98.00	78.00	54.60	33.20	20.20	15.00	12.00	9.90	6.96	6.18	3.32
	W	26.60.00	1132.00	909.00	639.00	390.00	238.00	178.00	142.00	118.00	83.00	74.50	40.20

### Outer dimensions (mm)

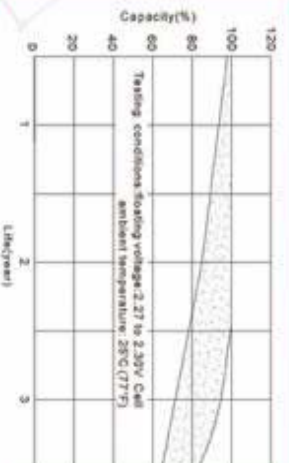


Discharge characteristic curve

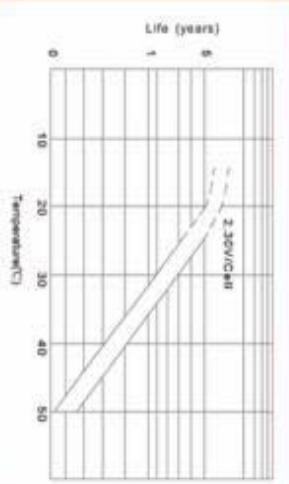


self-discharge characteristic

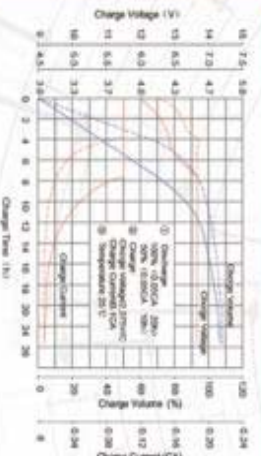
### life characteristics of standby use



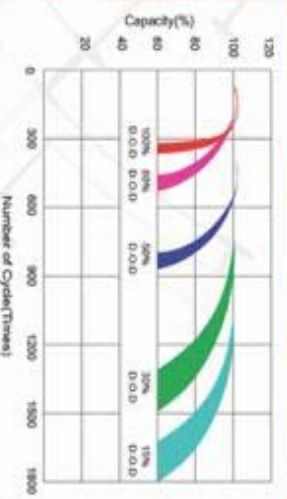
### Temperature effects on float life



### Charge characteristic Curve for standby use



### Cycle service life in relation to depth of discharge



# UnitexPower

UnitexPower Battery Co.,LTD



Design in Germany

# UP-1265

# 12V65AH

## Deep Cycle



Terminal Type (mm)

Outer dimensions (mm)



### UP General Series Battery

UPD series VRLA batteries are superior deep cycle design with thick plates, high-density active materials and slightly stronger electrolyte, Which can withstand repeated deep cyclic applications.

Deep Cycle Series Batteries are the special design batteries with 10 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat Standard.

### Application

- Emergency power system
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Electric bicycle and wheelchairs, etc.
- Power tools
- Golf cars and buggies
- Marine equipment
- Solar and wind power system

### General Features

- Safety sealing
- Non-spillable construction
- High power recovery
- Excellent recovery from deep discharge
- Thick plates and high active materials
- Longer life and low self-discharge design

### Construction

- Positive ..... Lead dioxide
- Electrolyte ..... Sulfuric acid
- Separator ..... Fiber glass
- Container ..... ABS(UL94-HB)
- Negative ..... Lead
- Safety Valve ..... EPDR
- Terminal ..... Copper

### Specification

Battery Model	Nominal Voltage		12V		
	Rated capacity (10 Hour rate)		65Ah		
Dimensions	Length	Width	Height		
	350 mm (13.78 inches)	166 mm (6.54 inches)	179 mm (7.05 inches)		
Approx Weight	22.1 kg(47.73 lbs) ±3%				
	Capacity 25°C (77°F)	10 Hour (6.5A, 10.8V)	5 Hour (11.0A, 10.5V)	3 Hour (16.2A, 10.2V)	1 Hour (35.9A, 9.6V)
Max. discharge current	65.0Ah		55.0Ah	48.6Ah	35Ah
	Full charged at 25°C: Approx 5.6 mQ				
Internal Resistance	40°C (104°F)		25°C (77°F)	0°C (32°F)	
	102%		100%	85%	
Capacity affected by Temp. (10 HR)	After 3 months storage		After 6 months storage		After 12 months storage
	91%		82%		64%
Self Discharge at 25°C (77°F)	Cycle Use		Float Use		
	14.1-14.40V (Initial charging current less than 26A)		13.50-13.80V		

# UnitexPower

## UnitexPower Battery Co.,LTD

Design in Germany





# UP-12100

# 12V100AH

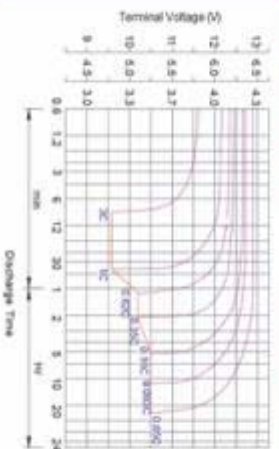
Deep Cycle

### UPD Deep Cycle Series Battery

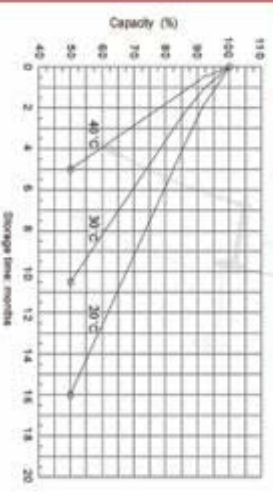
#### Constant Current (Amp) and Constant Power (Watt) Discharge Table at 25°C

Time	5 min		10 min		15 min		30min		1hr		2 hr		3 hr		4 hr		5 hr		8hr		10hr		20hr		
	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	A	W	
9.60 v	A	320.00	211.00	170.00	140.00	60.00	35.00	25.70	20.00	16.50	11.70	10.50	5.67												
	W	3305.00	2253.00	1824.00	1226.00	648.00	384.00	286.00	225.00	188.00	134.00	121.00	65.90												
10.20 v	A	310.00	190.00	160.00	109.00	56.40	33.40	25.00	19.50	16.20	11.40	10.30	5.50												
	W	3313.00	2126.00	1793.00	1224.00	638.00	385.00	290.00	227.00	189.00	133.00	121.00	64.5												
10.50 v	A	300.00	170.00	140.00	102.00	54.60	32.60	24.40	19.20	16.00	11.30	10.10	5.50												
	W	3277.00	1937.00	1599.00	1174.00	632.00	378.00	284.00	225.00	188.00	133.00	120.00	65.00												
10.80 v	A	289.00	161.00	130.00	94.00	52.80	31.80	23.80	18.90	15.60	11.00	10.00	5.40												
	W	3245.00	1851.00	1500.00	1089.00	615.00	372.00	281.00	223.00	184.00	130.00	119.00	64.30												
11.10 v	A	260.00	150.00	120.00	84.00	51.00	31.00	23.00	18.40	15.20	10.70	9.50	5.10												
	W	3170.00	1742.00	1399.00	983.00	600.00	366.00	273.00	219.00	181.00	128.00	114.70	61.80												

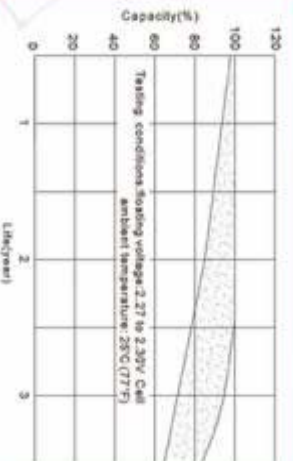
### Outer dimensions (mm)



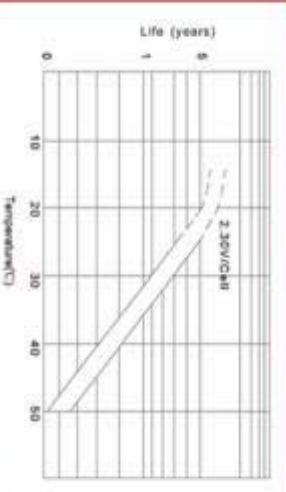
### Discharge characteristic curve



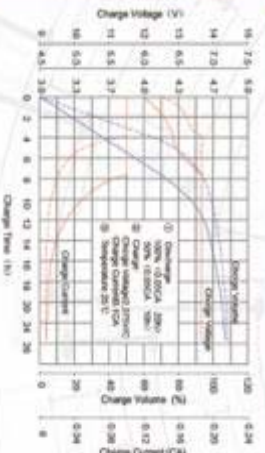
### self-discharge characteristic



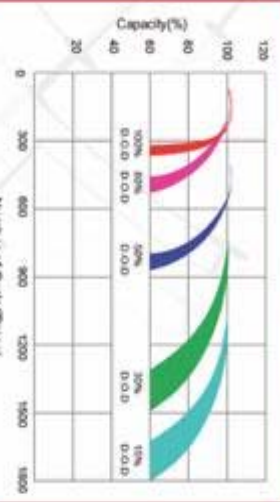
### life characteristics of standby use



### Temperature effects on float life



### Charge characteristic Curve for standby use



### Cycle service life in relation to depth of discharge

# UnitexPower

UnitexPower Battery Co.,LTD



Design in Germany

# UP-12100

# 12V100AH

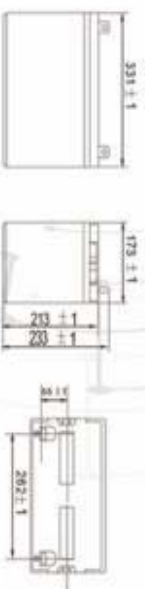
## Deep Cycle



### Terminal Type (mm)



### Outer dimensions (mm)



### UP General Series Battery

UPD series VRLA batteries are superior deep cycle design with thick plates, high-density active materials and slightly stronger electrolyte, Which can withstand repeated deep cyclic applications.  
**Deep Cycle Series Batteries** are the special design batteries with 10 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat Standard.

### Application

- Emergency power system
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Electric bicycle and wheelchairs, etc.
- Power tools
- Golf cars and buggies
- Marine equipment
- Solar and wind power system

### General Features

- Safety sealing
- Non-spillable construction
- High power density
- Excellent recovery from deep discharge
- Thick plates and high active materials
- Longer life and low self-discharge design

### Construction

- Positive ..... Lead dioxide
- Electrolyte ..... Sulfuric acid
- Separator ..... Fiber glass
- Container ..... ABS(UL94-HB)
- Negative ..... Lead
- Safety Valve ..... EPDR
- Terminal ..... Copper

### Specification

Battery Model	Nominal Voltage	12V	
Rated capacity (10 Hour rate)	Length	Width	Height
331 mm (13.03 inches)	31.0 kg (68.36 lbs) 13%	173 mm (6.81 inches)	213 mm (8.39 inches)
Approx Weight	10 Hour (10A, 10.8V)	5 Hour ( 17A, 10.5V)	3 Hour ( 25A, 10.2V)
Capacity 25°C (77°F)	100Ah	85Ah	75Ah
Max discharge current	1000A(5 Sec.)		
Internal Resistance	Full charged at 25°C: Approx 3 mΩ		
Capacity affected by Temp.(10HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)
Self Discharge at 25°C (77°F)	102%	100%	85%
Charge method 25°C (77°F)	After 3 months storage 91%		After 6 months storage 82%
	Cycle Use		Float Use
	14.1-14.4V (Initial charging current less than 40A)		13.50-13.80V

# UnitexPower

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