



PT. SELATAN JADI JAYA

FACTORY :
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FORCE SERIES

VRLA (12V26 AH)



Product Specification

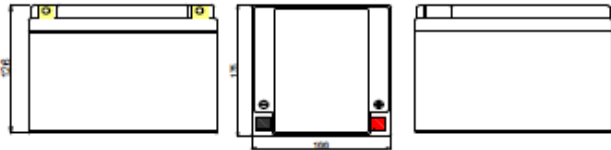
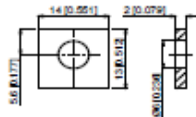
Nominal Voltage	12V	
Nominal Capacity (20HR)	26 AH	
Dimensions	Length	175±1mm (6.89 inches)
	Width	166±1mm (6.54 inches)
	Container Height	126±1mm (4.96 inches)
	Total Height (with terminal)	167±1mm (4.96 inches)
Approx Weight	Approx 8.0 kg (17.63 lbs)	
	Terminal	F4 Terminal
Container & Cover Material	ABS Copolymer (UL-94 HB)	
Lead Material	Purity Lead 99.995%	
Sulfuric Acid	Distilled Sulfuric Acid (Zero metal content)	
Separator	AGM	
Rated Capacity	26.0 AH/1.30A	(20hr, 1.80V/cell, 25°C/77°F)
	24.2AH/2.42A	(10hr, 1.80V/cell, 25°C/77°F)
	22.1AH/4.42A	(5hr, 1.75V/cell, 25°C/77°F)
	19.83AH/6.61A	(3hr, 1.75V/cell, 25°C/77°F)
Max. Discharge Current	390A (5s)	
	Approx 14mΩ	
Internal Resistance	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
Operating Temp. Range	Storage : -15~40°C (5~104°F)	
	25±3°C (77±5°F)	
Nominal Operating Temp. Range	Initial Charging Current less than 7.8A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C	
	No limit on Initial Charging Current Voltage	
Cycle Use	13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C	
	40°C (104°F) 103%	
Capacity affected by Temperature	25°C (77°F)	100%
	0°C (32°F)	86%
	Force series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

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

Dimensions

▲ F4 Terminal
Unit : mm (inches)



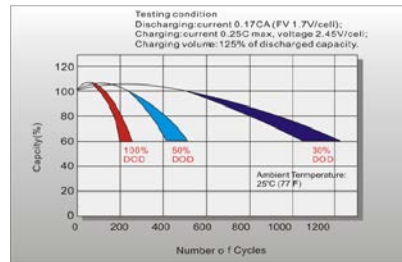
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	59.3	44.8	37.0	31.3	23.5	17.3	13.9	8.41	6.27	5.04	4.24	3.66	2.87	2.38	1.28
1.80V/cell	70.3	50.1	40.3	33.7	25.0	18.2	14.5	8.74	6.48	5.19	4.35	3.75	2.94	2.43	1.30
1.75V/cell	79.5	54.5	43.1	35.6	26.3	19.0	15.1	9.00	6.65	5.31	4.44	3.82	2.99	2.46	1.33
1.70V/cell	87.6	58.4	45.3	37.4	27.4	19.7	15.6	9.23	6.79	5.41	4.52	3.88	3.03	2.5	1.34
1.65V/cell	94.5	61.9	47.7	38.9	28.3	20.3	16.1	9.43	6.92	5.50	4.58	3.93	3.07	2.52	1.35
1.60V/cell	100.6	64.9	49.6	40.2	29.1	20.8	16.4	9.6	7.02	5.57	4.64	3.97	3.10	2.55	1.36

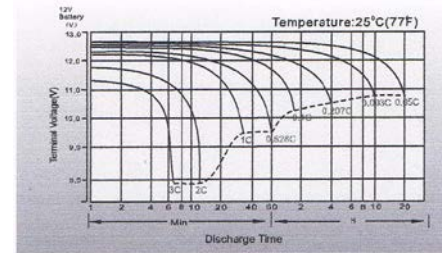
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	112.3	85.7	71.4	61.0	46.1	34.0	27.5	16.7	12.5	10.1	8.52	7.38	5.81	4.81	2.61
1.80V/cell	132.1	95.2	77.3	65.2	48.8	35.7	28.7	17.3	12.9	10.4	8.71	7.53	5.92	4.89	2.63
1.75V/cell	148.1	102.9	82.2	68.7	51.0	37.1	29.6	17.8	13.2	10.6	8.87	7.63	6.00	4.96	2.67
1.70V/cell	161.6	109.4	86.3	71.7	53.0	38.4	30.5	18.2	13.4	10.7	8.99	7.75	6.07	5.00	2.69
1.65V/cell	172.9	115.1	89.9	74.3	54.6	39.4	31.4	18.5	13.7	10.9	9.10	7.83	6.13	5.05	2.71
1.60V/cell	182.3	119.8	92.9	76.5	56.0	40.2	32.0	18.8	13.8	11.0	9.18	7.89	6.17	5.08	2.73

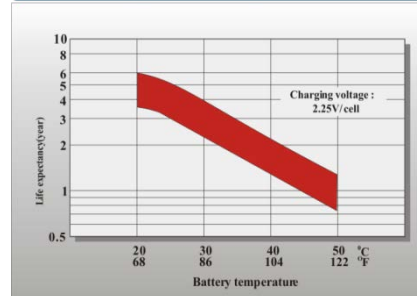
Cycle Life in Relation to Depth of Discharge



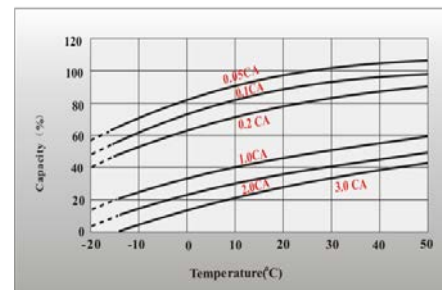
Discharge Characteristics



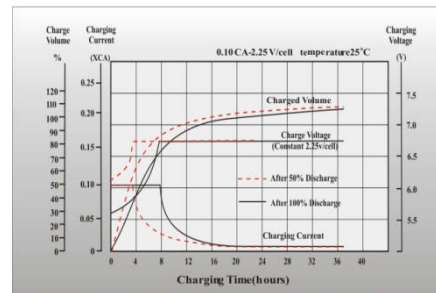
Effect of Temperature on Long Term Float Life



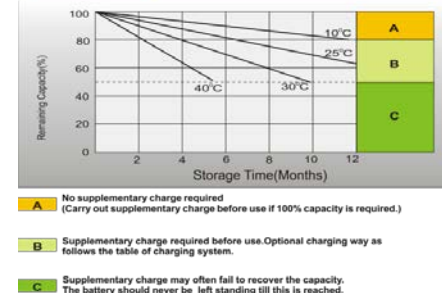
Temperature Effects in Relation to Battery Capacity



Float Charging Characteristics



Self Discharge Characteristics



State of Charge (SOC)

Open Circuit Voltage (V/cell)	Open Circuit Voltage (12V Battery)	Open Circuit Voltage (6V Battery)	State of Charge (% of full charge capacity)
2.14-2.15	12.84-12.90	6.42-6.46	100
2.12-2.13	12.72-12.78	6.36-6.39	90
2.11	12.66	6.33	80
2.09	12.54	6.27	70
2.07	12.42	6.21	60
2.05	12.30	6.15	50

Charging System

D o D	Current Limit (A)	Constant Voltage (V)	Fully Charged Time (h)
20	0.15C ₁₀	13.5-13.8 vpc (12V)	10
	0.20C ₁₀	6.75-6.9 vpc (6V)	8
50	0.15C ₁₀	13.5-13.8 vpc (12V)	15
	0.20C ₁₀	6.75-6.9 vpc (6V)	12
80	0.15C ₁₀	13.5-13.8 vpc (12V)	16
	0.20C ₁₀	6.75-6.9 vpc (6V)	14
100	0.15C ₁₀	13.5-13.8 vpc (12V)	20
	0.20C ₁₀	6.75-6.9 vpc (6V)	18