

# STANDBY SERIES

## SN12038 (12V 38AH)



### Specifications

Nominal Voltage	12V
Nominal Capacity(20hr)	38AH
Dimension	Length 197±2mm(7.76inch)
	Width 165±2mm(6.50inch)
	Height 170±2mm(6.69inch)
	Total Height 170±2mm(6.69inch)
Approx Weight	Approx. 13.1kg(28.9lbs)
Terminal Type	T6
container Material	ABS(UL-94HB)
Internal Resistance	Approx. 9mΩ
Rated Capacity	38AH/1.9A (20hr, 1.80V/cell,25°C/77°F)
	36.48AH/3.64A (10hr, 1.80V/cell,25°C/77°F)
	33.06AH/6.61A (5hr, 1.75V/cell,25°C/77°F)
	29.26AH/9.75A (3hr, 1.75V/cell,25°C/77°F)
	23.56AH/23.56A (1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	480A(5S)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Charge Current Less Than 0.25CA
	14.1V~14.7V@25°C(77°F)Temp. Coefficient -30mV/°C
Floating Use	No limit on Initial Charging Current Voltage
	13.5V~13.8V@25°C(77°F)Temp. Coefficient -20mV/°C
	40°C 103%
Capacity affected by Temperature	25°C 100%
	0°C 86%
	-15°C 65%
	3 month Remaining capacity: 91%
Self-discharge	6 month Remaining capacity: 82%
	12month Remaining capacity: 65%



### Constant Power Discharge 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	118.9	94.5	81.1	68.6	55.1	42.1	34.6	22.2	17.6	14.4	11.6	10.2	8.29	7.1	3.88
1.80V/cell	157.9	119.3	96.7	79.9	64	48.5	38.5	24	18.8	15.3	12.4	10.9	8.77	7.51	3.91
1.75V/cell	174.3	128.9	104.3	85.1	65.9	49.9	40.1	24.8	19.1	15.6	12.7	11.1	8.9	7.57	3.94
1.70V/cell	186.6	137.4	109.9	88.7	68.2	51.7	41.2	25.8	19.6	16	13	11.3	9.01	7.64	4.01
1.65V/cell	202.8	146.9	115.9	93.6	71.4	52.5	42.3	26.3	20.3	16.5	13.3	11.6	9.13	7.79	4.06
1.60V/cell	218.5	155.8	121.9	98.6	74.8	54.4	43.6	27.1	20.9	16.9	13.7	11.8	9.2	7.86	4.08

### Constant Current Discharge 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	65	51.1	43.5	36.4	28.9	21.9	17.9	11.4	9.02	7.37	5.94	5.17	4.2	3.59	1.96
1.80V/cell	87.3	65.3	52.5	43	34.1	25.4	20.1	12.5	9.71	7.87	6.38	5.55	4.45	3.8	1.98
1.75V/cell	98.4	71.8	57.4	46.2	35.4	26.4	21	12.9	9.89	8.04	6.54	5.7	4.53	3.84	2
1.70V/cell	108.4	78.2	61.3	48.6	36.9	27.5	21.7	13.4	10.2	8.26	6.71	5.82	4.59	3.88	2.03
1.65V/cell	119.5	84.4	65.1	51.6	38.9	28.1	22.4	13.8	10.6	8.54	6.9	5.95	4.67	3.96	2.06
1.60V/cell	131.8	91.7	69.7	55	41	29.3	23.2	14.3	10.9	8.81	7.13	6.08	4.71	4	2.07