

# LP12-20 (12V 20Ah)



Since 1993

Item Code: NSA LP12-20 T3  
 EAN: 8717101013014

## Specifications

<b>Nominal Voltage</b>	12		
<b>Approx. Weight</b>	5.65 Kg (12.5lbs)		
<b>Container Material</b>	ABS		
<b>Rated Capacity (25 °C)</b>	<b>20.00 Ah</b>	<b>20hr, 1.00A, 1.75V/cell</b>	
	18.90 Ah	10hr, 1.89A, 1.75V/cell	
	17.20 Ah	5hr, 3.44A, 1.75V/cell	
	15.30 Ah	3hr, 5.10A, 1.75V/cell	
	13.10 Ah	1hr, 13.1A, 1.60V/cell	
<b>Short-circuit Current</b>	560A		
<b>Internal Resistance</b>	Approx. 16.0 mΩ		
<b>Operating Temp. Range</b>	Discharge:	-15 °C ~ 50 °C	5 °F ~ 122 °F
	Charge:	-20 °C ~ 40 °C	-4 °F ~ 104 °F
	Storage:	-15 °C ~ 40 °C	5 °F ~ 104 °F
<b>Nominal operating temp. Range</b>	25±3°C (77±5°F)		
<b>Effect of Temp. to Capacity</b>	40 °C	104 °F	103%
	25 °C	77 °F	100%
	0 °C	32 °F	86%
<b>Max. Charging Current (25°C)</b>	6.00A		
<b>Cycle Use</b>	Voltage 14.6V~14.8V at 25°C (77 °F) Temp. Coefficient -5mV/Cell/°C		
<b>Standby Use</b>	Voltage 13.6V~13.8V at 25°C (77°F) Temp. Coefficient -3mV/Cell/°C		
<b>Self-Discharge</b>	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.		
<b>Design Life</b>	5 years		



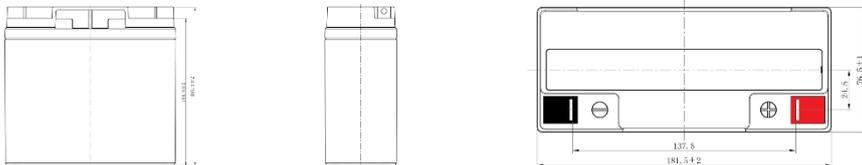
## Certificates / Standards

- UL Certified MH48553
- CE Certified
- Manufactured in certified production facilities; IATF 16949/ ISO 9001/ ISO 14001



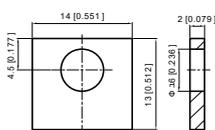
## Dimensions

### Layout



<b>Length</b>	181.5 mm
<b>Width</b>	76.5 mm
<b>Container Height</b>	167.5 mm
<b>Total Height</b>	167.5 mm

### Terminal



<b>Terminal</b>	T3
<b>Layout</b>	0

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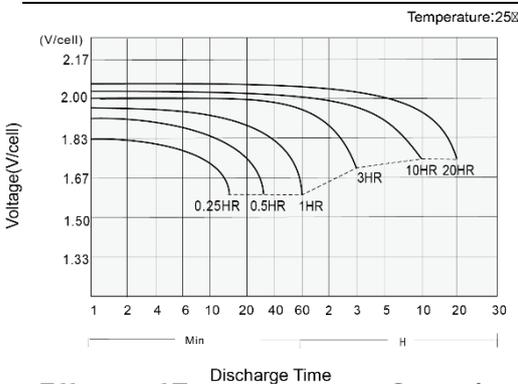
## Constant Current Discharge Characteristics: Amperes (25 ° C)

F.V / Time	10 min	15 min	30 min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
1.85V	42.6	33.2	19.1	11.9	6.85	4.94	3.94	3.35	2.26	1.85	0.978
1.80V	45.2	34.8	20.5	12.2	6.97	5.02	3.99	3.40	2.29	1.87	0.989
1.75V	47.0	36.0	21.0	12.4	7.10	5.10	4.05	3.44	2.32	1.89	1.00
1.70V	48.9	37.2	21.6	12.7	7.20	5.18	4.10	3.49	2.34	1.91	1.01
1.67V	50.3	38.1	21.9	12.9	7.28	5.23	4.14	3.52	2.36	1.92	1.02
1.60V	52.4	39.4	22.5	13.1	7.43	5.32	4.22	3.58	2.39	1.95	1.03

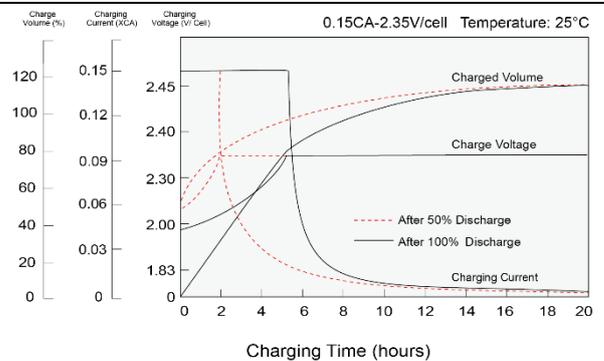
## Constant Power Discharge Characteristics: Watts/ cell (25 ° C)

F.V / Time	10 min	15 min	30 min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
1.85V	81.2	63.5	38.4	23.1	13.4	9.71	7.76	6.62	4.84	3.67	1.96
1.80V	85.4	66.3	39.4	23.6	13.6	9.85	7.85	6.70	4.54	3.72	1.98
1.75V	88.2	68.0	40.3	24.0	13.8	10.0	7.95	6.78	4.59	3.75	2.00
1.70V	91.1	69.9	41.1	24.4	14.0	10.1	8.05	6.86	4.63	3.79	2.02
1.67V	93.2	71.4	41.7	24.7	14.1	10.2	8.11	6.91	4.66	3.81	2.03
1.60V	95.9	73.3	42.6	25.1	14.4	10.4	8.23	7.00	4.73	3.86	2.05

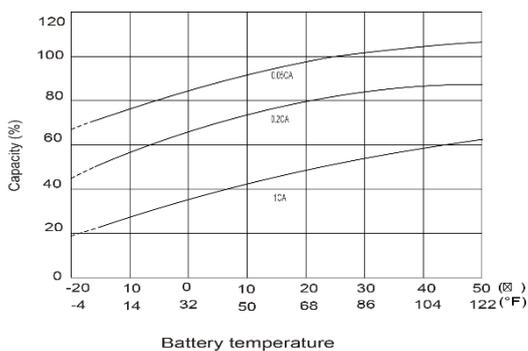
## Discharge Characteristic



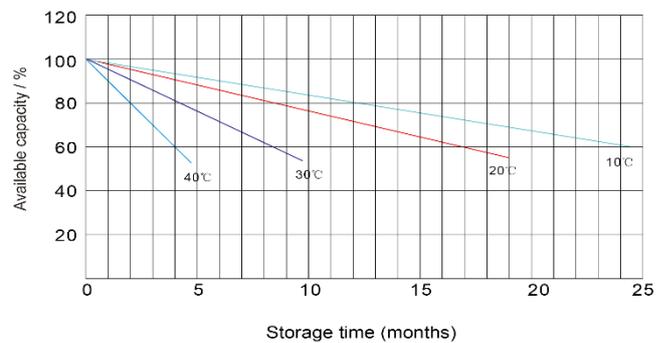
## Charging Characteristics



## Effects of Temperature on Capacity



## Self-Discharge Characteristics



(Note) All above information shall be changed without prior notice, Landport Batteries reserves the right to explain and update the latest information.