

LP12-4.5 (12V 4.5 Ah)



Since 1993

6-2-2026

Item Code: NSA LP12-4,5 T1
 EAN: 8717101013038

Specifications

Nominal Voltage	12		
Approx. Weight	1.44 Kg (3.17lbs)		
Container Material	ABS		
Rated Capacity (25 °C)	4.50 Ah	20hr, 0.225A, 1.75V/cell	
	4.19 Ah	10hr, 0.419A, 1.75V/cell	
	3.82 Ah	5hr, 0.765A, 1.75V/cell	
	4.74 Ah	3hr, 1.58A, 1.75V/cell	
	2.66 Ah	1hr, 2.66A, 1.60V/cell	
Short-circuit Current	126A		
Internal Resistance	Approx. 48 0 mΩ		
Operating Temp. Range	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
Nominal operating temp. Range	25±3°C (77± 5°F)		
Effect of Temp. to Capacity	40 °C	104 °F	103%
	25 °C	77 °F	100%
	0 °C	32 °F	86%
Max. Charging Current (25°C)	1.35A		
Cycle Use	Voltage 14.6V~14.8V at 25°C (77 °F) Temp. Coefficient -5mV/Cell/°C		
Standby Use	Voltage 13.6V~13.8V at 25°C (77°F) Temp. Coefficient - 3mV/Cell/°C		
Self-Discharge	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.		
Design Life	5 years		



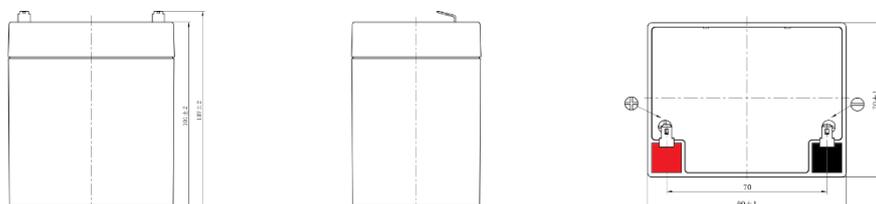
Certificates / Standards

- UL Certified MH48553
- CE Certified
- Manufactured in certified production facilities; IATF16949/ ISO9001/ ISO14001



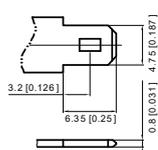
Dimensions

Layout



Length	90 mm
Width	70 mm
Container Height	101 mm
Total Height	107 mm

Terminal



Terminal	T1
Layout	1

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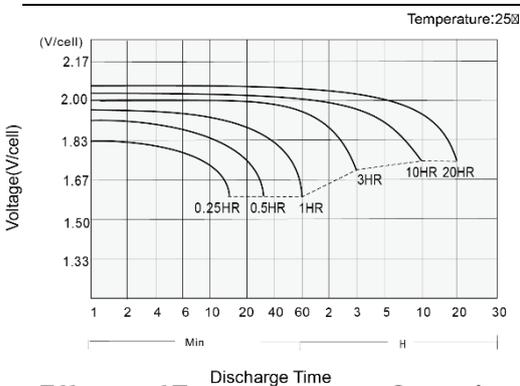
Constant Current Discharge Characteristics: Amperes (25 ° C)

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	8.26	6.55	4.07	2.44	1.53	1.09	0.876	0.744	0.500	0.409	0.220
1.80V	8.69	6.81	4.17	2.48	1.56	1.11	0.888	0.755	0.507	0.413	0.222
1.75V	9.10	7.06	4.27	2.53	1.58	1.13	0.900	0.765	0.513	0.419	0.225
1.70V	9.50	7.31	4.37	2.57	1.61	1.14	0.910	0.775	0.519	0.424	0.227
1.67V	9.80	7.46	4.43	2.60	1.62	1.15	0.920	0.780	0.523	0.427	0.229
1.60V	10.40	7.80	4.56	2.66	1.66	1.17	0.940	0.795	0.532	0.433	0.231

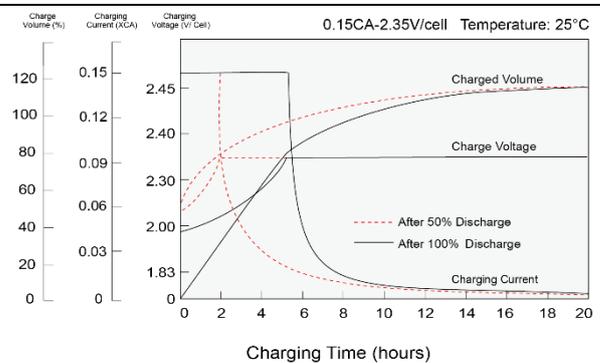
Constant Power Discharge Characteristics: Watts/ cell (25 ° C)

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	15.8	12.6	7.86	4.74	3.01	2.15	1.73	1.47	0.990	0.812	0.489
1.80V	16.5	13.1	8.02	4.82	3.04	2.18	1.75	1.49	1.01	0.821	0.494
1.75V	17.2	13.4	8.18	4.89	3.09	2.21	1.76	1.50	1.02	0.831	0.499
1.70V	17.9	13.9	8.33	4.96	3.12	2.23	1.79	1.52	1.03	0.840	0.504
1.67V	18.4	14.0	8.42	5.00	3.15	2.25	1.80	1.53	1.04	0.845	0.507
1.60V	19.3	14.6	8.63	5.09	3.20	2.29	1.83	1.56	1.05	0.858	0.515

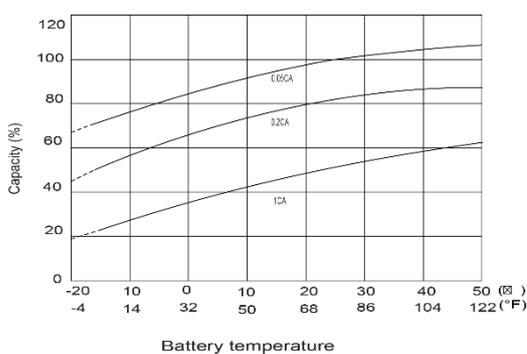
Discharge Characteristic



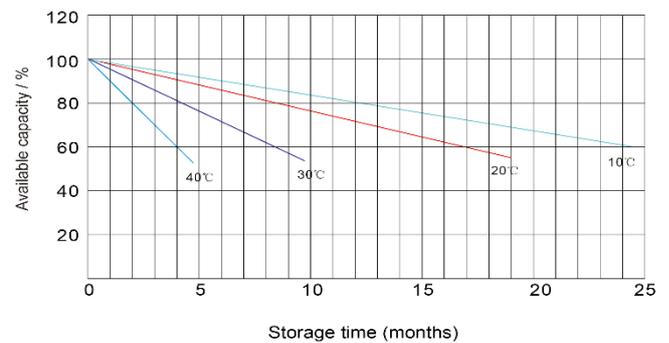
Charging Characteristics



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.