

LP12-50 (12V 45Ah)



Since 1993

Item Code: NSA LP12-50 T6
 EAN: 8717101012956

Specifications

Nominal Voltage	12		
Approx. Weight	12.50 Kg (27.55 lbs)		
Container Material	ABS		
Rated Capacity (25 °C)	47.20 Ah	20hr, 2.36A, 1.80V/cell	
	45.00 Ah	10hr, 4.50A, 1.80V/cell	
	39.25 Ah	5hr, 7.85A, 1.75V/cell	
	34.80 Ah	3hr, 11.60A, 1.75V/cell	
	27.50 Ah	1hr, 27.50A, 1.60V/cell	
Short-circuit Current	1050A		
Max. Discharge Current	450A (5s)		
Internal Resistance	Approx. 9.0m Ω		
Operating Temp. Range	Discharge:	-20 °C ~ 60 °C	-4 °F ~ 140 °F
	Charge:	0 °C ~ 50 °C	32 °F ~ 122 °F
	Storage:	-20 °C ~ 60 °C	-4 °F ~ 140 °F
Nominal operating temp. Range	25±5°C (77± 9°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)	14.1A		
Cycle Use	Voltage 14.6 V~14.8 V at 25°C (77°F) Temp. Coefficient -4mV/°C /Cell		
Standby Use	Voltage 13.6 V~13.8 V at 25°C (77°F) Temp. Coefficient: -3mV/°C /Cell		
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	12 Years		



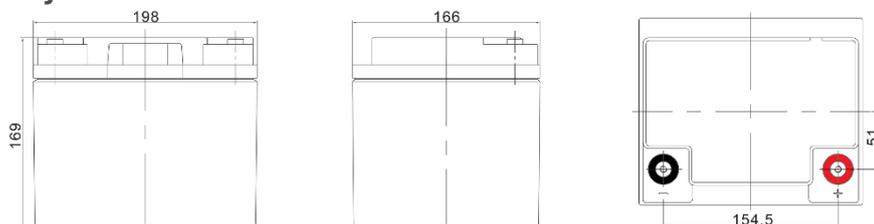
Certificates / Standards

- UL Certified MH 64495
- CE Certified
- Manufactured in certified production facilities; ISO 9001/ ISO 14001/ OHSAS18001



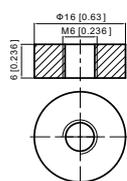
Dimensions

Layout



Length	198 mm
Width	166 mm
Container Height	169 mm
Total Height	169 mm

Terminal



Terminal	T6
Terminal Torque	8 ~ 10 Nm
Layout	0

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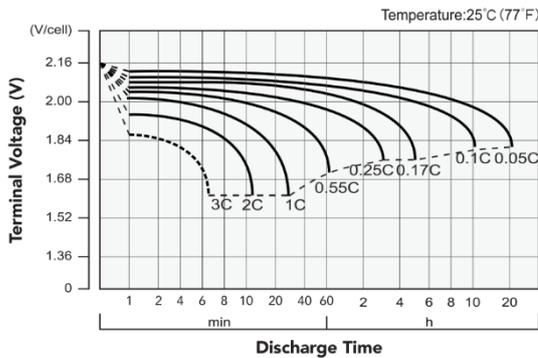
Constant Current Discharge Characteristics: Amperes (25 ° C)

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	64.7	53.3	35.6	21.3	13.1	10.4	8.31	7.13	5.05	4.24	2.24
1.80V	79.2	64.2	41.3	23.8	14.3	11.3	8.94	7.65	5.38	4.50	2.36
1.75V	87.5	69.5	43.2	24.7	14.8	11.6	9.20	7.85	5.48	4.56	2.38
1.70V	95.5	74.7	45.2	25.7	15.3	12.0	9.44	8.05	5.55	4.62	2.41
1.67V	103.8	79.8	47.3	26.6	15.9	12.3	9.71	8.27	5.64	4.69	2.44
1.60V	109.8	83.4	49.3	27.5	16.4	12.7	9.98	8.49	5.71	4.75	2.48

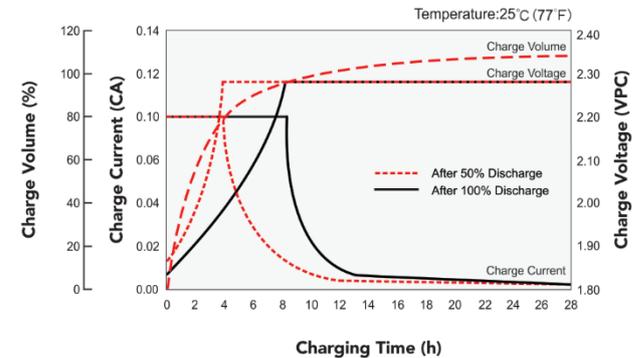
Constant Power Discharge Characteristics: Watts/ cell (25 ° C)

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	120.3	100.1	68.0	41.3	25.4	20.3	16.2	14.0	9.98	8.38	4.44
1.80V	144.7	118.9	78.1	45.8	27.6	21.9	17.4	15.0	10.6	8.89	4.67
1.75V	157.1	127.0	80.9	47.4	28.5	22.5	17.9	15.3	10.8	9.00	4.71
1.70V	168.6	134.5	83.8	48.9	29.4	23.1	18.3	15.6	10.9	9.10	4.77
1.67V	179.8	141.5	86.8	50.2	30.2	23.6	18.7	16.0	11.0	9.23	4.82
1.60V	186.7	145.9	89.5	51.7	31.0	24.2	19.2	16.4	11.1	9.33	4.89

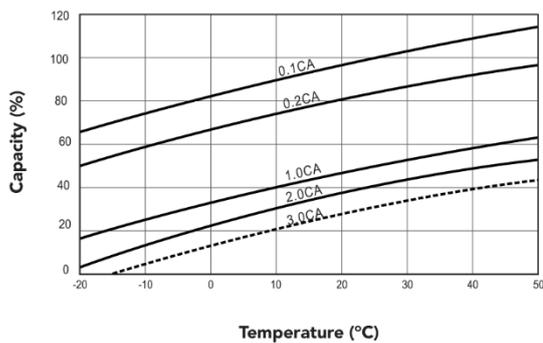
Discharge Characteristic



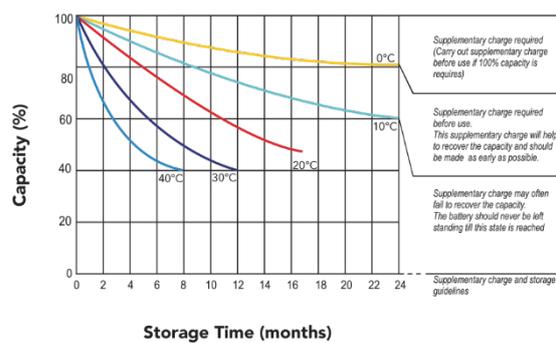
Charging Characteristics



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.