

LP12-33 (12V 33Ah)



Since 1993

Item Code: NSA 12-33 T6
 EAN: 8717101000908

Specifications

Nominal Voltage	12		
Approx. Weight	9.60 Kg (21.16 lbs)		
Container Material	ABS		
Rated Capacity (25 °C)	34.60 Ah	20hr, 1.73A, 1.80V/cell	
	33.00 Ah	10hr, 3.30A, 1.80V/cell	
	28.80 Ah	5hr, 5.76A, 1.75V/cell	
	25.53 Ah	3hr, 8.51A, 1.75V/cell	
	20.20 Ah	1hr, 20.20A, 1.60V/cell	
Short-circuit Current	825A		
Max. Discharge Current	330A (5s)		
Internal Resistance	Approx. 12.0m 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)	10.38A		
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		
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		



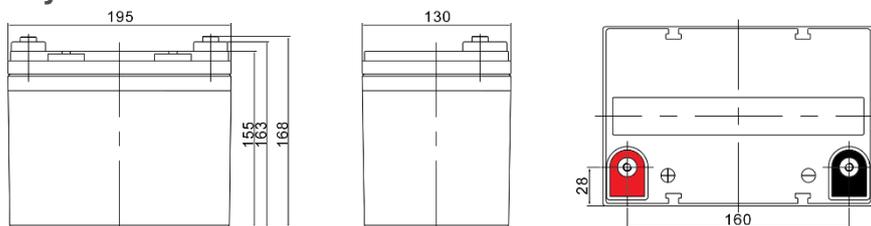
Certificates / Standards

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



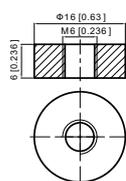
Dimensions

Layout



Length	195 mm
Width	130 mm
Container Height	155 mm
Total Height	168 mm

Terminal



Terminal	T6
Terminal Torque	8 ~ 10 Nm
Layout	1

LP12-33 (12V 33Ah)



Since 1993

6-2-2026

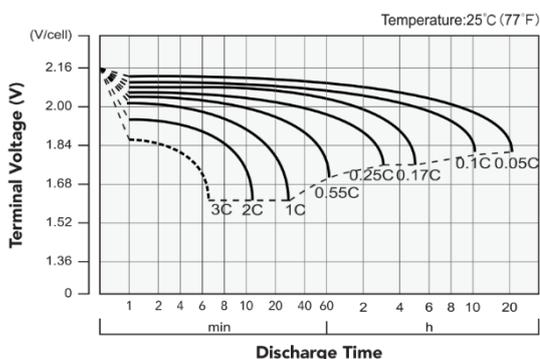
Constant Current Discharge Characteristics: Amperes (25 ° C)

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	47.4	39.1	26.1	15.7	9.59	7.63	6.09	5.23	3.71	3.11	1.64
1.80V	58.1	47.1	30.3	17.5	10.5	8.25	6.55	5.61	3.95	3.30	1.73
1.75V	64.1	51.0	31.7	18.1	10.9	8.51	6.75	5.76	4.02	3.34	1.75
1.70V	70.1	54.8	33.2	18.8	11.2	8.78	6.92	5.91	4.07	3.39	1.77
1.67V	76.1	58.5	34.7	19.5	11.6	9.02	7.12	6.06	4.14	3.44	1.79
1.60V	80.5	61.2	36.1	20.2	12.0	9.31	7.32	6.23	4.18	3.48	1.82

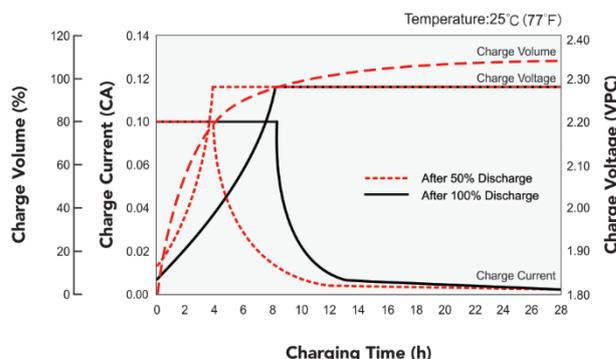
Constant Power Discharge Characteristics: Watts/ cell (25 ° C)

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	88.3	73.4	49.8	30.3	18.6	14.9	11.9	10.3	7.32	6.15	3.26
1.80V	106.1	87.2	57.3	33.6	20.2	16.0	12.8	11.0	7.78	6.52	3.43
1.75V	115.2	93.1	59.4	34.7	20.9	16.5	13.1	11.2	7.89	6.60	3.46
1.70V	123.6	98.6	61.5	35.8	21.5	16.9	13.4	11.5	7.99	6.68	3.50
1.67V	131.9	103.8	63.7	36.8	22.1	17.3	13.7	11.7	8.10	6.77	3.53
1.60V	136.9	107.0	65.6	37.9	22.8	17.8	14.0	12.0	8.17	6.84	3.59

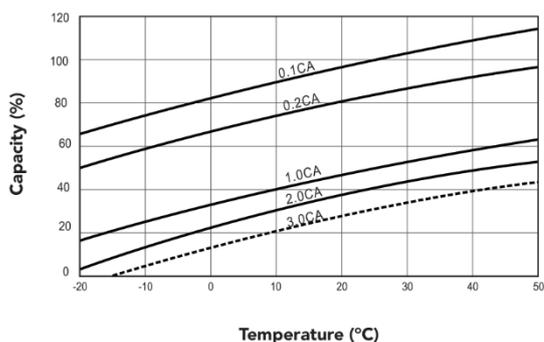
Discharge Characteristic



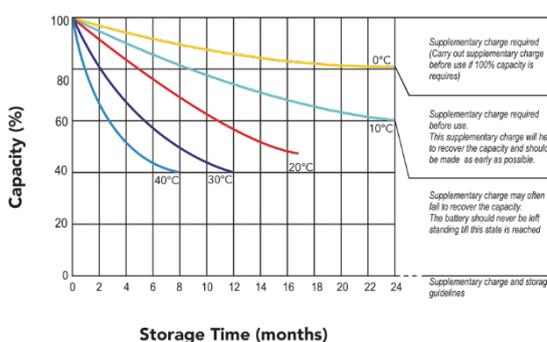
Charging Characteristics



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.