

# TECHNICAL DATA SHEET

## DAS12-44



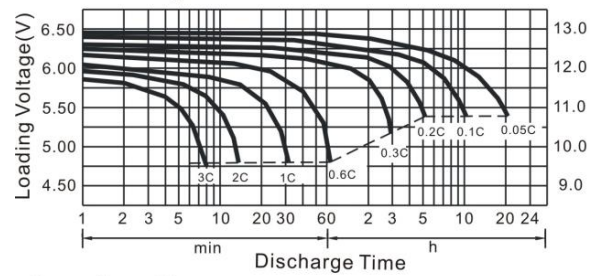
### Specifications

<b>Nominal Voltage</b>		12V
<b>Rated Capacity 77°F(25°C) (10HR)</b>		42Ah
<b>Dimensions (mm/inch)</b>	<b>Length</b>	197 (7.76)
	<b>Width</b>	165 (6.50)
	<b>Height</b>	170 (6.69)
	<b>Total Height</b>	170 (6.69)
<b>Approx. Weight (kg/lbs)</b>		12.8 (28.22)
<b>Terminal</b>		T4/T11

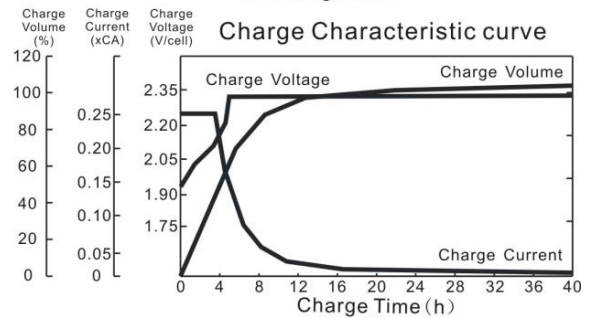
### Characteristics

<b>Capacity 77°F(25°C)</b>	<b>20HR (2.12A)</b>	44.2Ah
	<b>10HR (4.00A)</b>	42Ah
	<b>5HR (6.80A)</b>	36.0Ah
	<b>1HR (22.0A)</b>	24.2Ah
	<b>15 min rate (70.0A)</b>	18.4Ah
<b>Internal Resistance</b>	<b>Full Charged Battery 77°F(25°C)</b>	Approx. 9.5mΩ
<b>Temperature dependence of capacity (10HR)</b>	<b>104°F(40°C)</b>	102%
	<b>77°F(25°C)</b>	100%
	<b>32°F(0°C)</b>	85%
	<b>5°F(-15°C)</b>	65%
<b>Self-Discharge 68°F(20°C) (Capacity after)</b>	<b>3 months</b>	90%
	<b>6 months</b>	80%
	<b>12 months</b>	60%
<b>Max. Discharge Current, 77°F(25°C)</b>		336A(5s)
<b>Floating design life, 77°F(25°C)</b>		10 years
<b>Constant Voltage Charge, 77°F(25°C)</b>	<b>Cycle</b>	14.4~14.7V(-24mV/°C) max. current: 10 A
	<b>Float</b>	13.6~13.8V(-18mV/°C)

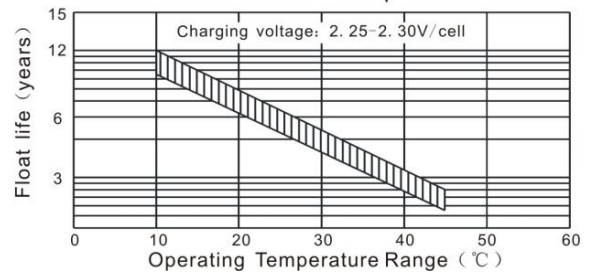
Discharge Characteristics 77°F (25°C)



Charge Characteristic curve



Float service life VS temperature



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### Constant Current Discharge Characteristics (A), 77°F(25°C)

F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	142.8	92.4	73.5	42	24.4	15.13	11.15	7.54	5.04	4.38	2.29
1.70V/cell	135.7	87.8	70.2	40.2	23.5	14.55	10.9	7.56	4.99	4.33	2.27
1.75V/cell	129.4	82.3	69	39.4	23.1	14.28	10.69	7.27	4.88	4.26	2.25
1.80V/cell	121.4	76	67.7	38.5	22.7	14.0	10.5	7.14	4.83	4.2	2.24

### Constant Wattage Discharge Characteristics (Watt), 77°F(25°C)

F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	255	167.8	134.8	77.5	45.3	28.26	21.05	14.33	9.68	8.55	4.48
1.70V/cell	244	161	130	74.7	43.9	27.44	20.75	14.19	9.65	8.52	4.47
1.75V/cell	235	152.6	128.7	73.8	43.7	27.15	20.5	14.05	9.57	8.45	4.46
1.80V/cell	222	142	127.6	73	43.2	26.90	20.31	13.92	9.50	8.4	4.45

