

# TECHNICAL DATA SHEET

## DAS12-18



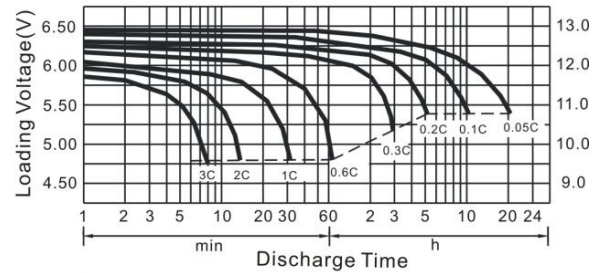
### Specifications

<b>Nominal Voltage</b>		12V
<b>Rated Capacity 77°F(25°C) (20HR)</b>		18.0Ah
<b>Dimensions (mm/inch)</b>	<b>Length</b>	181 (7.13)
	<b>Width</b>	77 (3.03)
	<b>Height</b>	167 (6.57)
	<b>Total Height</b>	167 (6.57)
<b>Approx. Weight (kg/lbs)</b>		4.75 (10.47)
<b>Terminal</b>		M5

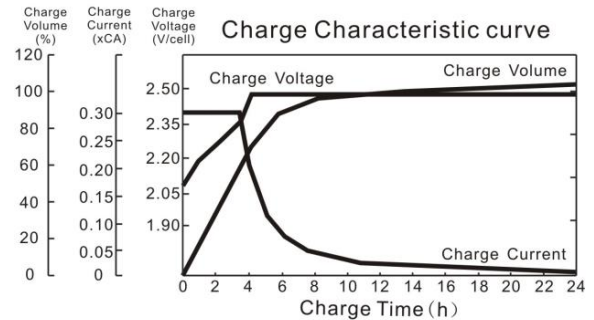
### Characteristics

<b>Capacity 77°F(25°C)</b>	<b>20HR (0.90A)</b>	18.0Ah
	<b>10HR (1.67A)</b>	16.7Ah
	<b>5HR (3.06A)</b>	15.3Ah
	<b>1HR (11.0A)</b>	11.0Ah
	<b>15 min rate (33.3A)</b>	8.3Ah
<b>Internal Resistance</b>	<b>Full Charged Battery 77°F(25°C)</b>	Approx. 18mΩ
<b>Temperature dependence of capacity (20HR)</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>		270A(5s)
<b>Floating design life, 77°F(25°C)</b>		5 years
<b>Constant Voltage Charge, 77°F(25°C)</b>	<b>Cycle</b>	14.5~14.9V(-24mV/°C) max. current: 5.4A
	<b>Float</b>	13.6~13.8V(-18mV/°C)

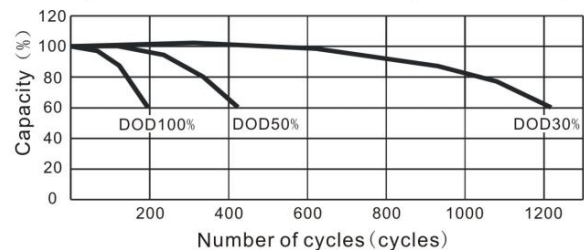
Discharge Characteristics 77°F (25°C)



Charge Characteristic curve



Cycle service life in relation to depth of discharge



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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	68.4	43.2	33.3	18.0	11.39	6.43	4.69	3.17	2.11	1.73	0.93
1.70V/cell	65.0	41.0	31.8	17.2	10.98	6.17	4.59	3.11	2.09	1.71	0.92
1.75V/cell	63.7	40.1	31.2	16.8	10.78	6.07	4.50	3.06	2.05	1.67	0.91
1.80V/cell	62.5	39.2	30.7	16.5	10.60	5.96	4.43	3.01	2.03	1.66	0.90

### 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	124.2	79.1	61.61	33.61	21.46	12.20	9.00	6.12	4.12	3.40	1.84
1.70V/cell	119.2	76.0	59.36	32.40	20.86	11.83	8.87	6.07	4.10	3.38	1.83
1.75V/cell	117.9	74.9	58.82	32.00	20.66	11.74	8.78	6.01	4.07	3.35	1.82
1.80V/cell	116.6	74.0	58.28	31.68	20.50	11.61	8.71	5.96	4.03	3.31	1.80