

TECHNICAL DATA SHEET

DGY12-65

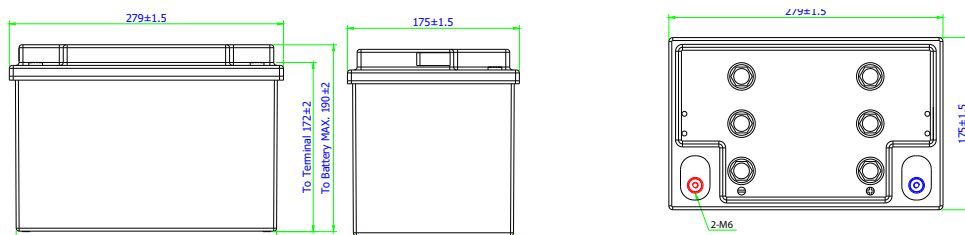


Specifications

	Dimensions mm - kg						Dimensions Inches - lbs						Cold Cranking Amps		
	Length	Width	Height Auto	Height Insert	Height Battery	Weight	Length	Width	Height Auto	Height Insert	Height Battery	Weight	20°C (68°F)	0°C (32°F)	-18°C (0°F)
DGY12-65	279	175	190	173	190	21.5	10.98	6.89	7.48	6.81	7.48	47.4	708	573	400

	Volts	Thread size mm	Reserve Capacity - Mins					Capacity - Ampere Hour*						
			75 Amps	25 Amps	20 Amps	15 Amps	8 Amps	100 Hr	48 Hr	20 Hr	10 Hr	5 Hr	3 Hr	1 Hr
DGY12-65	12	6	32	135	180	251	519	86.3	81.0	75.0	68.6	61.1	56.4	46.4

Dimensions



Applications



CYCLIC



STATIONARY



SOLAR



MARINE

TECHNICAL DATA SHEET

DGY12-65

Constant Power Discharge - Watts per Cell @20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	263	197	161	136	117	103	92.4	83.7	76.4	61.6	45.8	36.9	27.8	22.5
1.80	281	211	172	145	125	110	99	89.4	81.6	65.8	48.9	39.4	29.7	24.1
1.75	299	224	182	154	133	118	105	95.1	86.8	70.0	52.0	41.9	31.6	25.6
1.70	306	229	187	158	136	120	107	97.2	88.7	71.5	53.1	42.9	32.3	26.2
1.67	309	231	188	159	137	121	108	98.1	89.5	72.2	53.6	43.2	32.6	26.4
1.65	310	232	189	160	138	122	109	98.5	89.8	72.4	53.8	43.4	32.8	26.5
1.60	313	234	191	161	139	123	110	99.4	90.7	73.1	54.3	43.8	33.1	26.8

Constant Amps Discharge - Amps @20-25 °C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	173	129	100.2	82.3	69.4	62.0	58.0	53.7	50.5	40.8	29.0	23.3	16.5	12.8	10.65	9.09	7.93	7.15	6.04	5.13	3.29
1.80	185	137	107.1	87.9	74.1	66.2	61.9	57.4	53.9	43.6	31.0	24.9	17.7	13.7	11.37	9.71	8.47	7.64	6.45	5.48	3.52
1.75	196	146	113.9	93.5	78.8	70.4	65.9	61.1	57.3	46.4	32.9	26.5	18.8	14.6	12.10	10.33	9.01	8.13	6.86	5.83	3.74
1.70	201	149	116.4	95.6	80.6	71.9	67.3	62.4	58.6	47.4	33.7	27.1	19.2	14.9	12.37	10.56	9.21	8.30	7.01	5.96	3.83
1.67	202	151	117.4	96.4	81.3	72.6	67.9	62.9	59.1	47.8	34.0	27.3	19.4	15.0	-	-	-	-	-	-	-
1.65	203	151	117.9	96.8	81.6	72.9	68.2	63.2	59.3	48.0	34.1	27.4	19.5	15.1	-	-	-	-	-	-	-
1.60	205	153	119.0	97.7	82.4	73.6	68.8	63.8	59.9	48.5	34.4	27.7	19.6	15.2	-	-	-	-	-	-	-

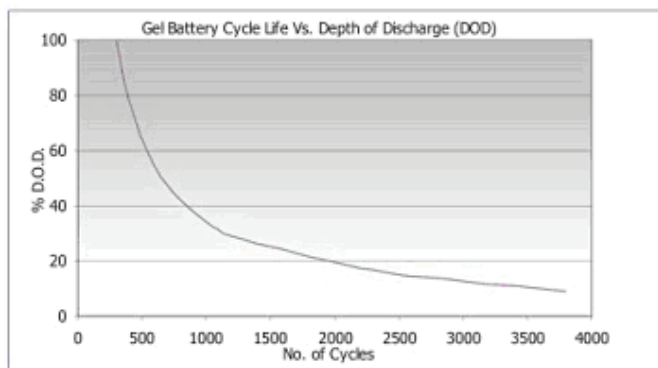
Ampere Hour @20-25 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr
1.85	46.6	49.6	51.3	53.2	54.6	55.5	57.2	60.4	61.5	65.9
1.80	49.8	53.0	54.8	56.9	58.3	59.3	61.1	64.5	65.7	70.4
1.75	53.0	56.4	58.3	60.5	62.0	63.1	65.0	68.6	69.9	74.9
1.70	54.2	57.6	59.6	61.8	63.4	64.5	66.4	70.1	71.5	76.5
1.67	54.6	58.1	60.1	-	-	-	-	-	-	-
1.65	54.9	58.4	60.3	-	-	-	-	-	-	-
1.60	55.4	58.9	60.9	-	-	-	-	-	-	-

TECHNICAL DATA SHEET

DGY12-65

Charging



Nominal voltage	6 & 12 volts
Design life	12 Years @ 20°C
Operating temperature	-10 °C to 50°C
Grid alloy	Calcium / Tin lead alloy
Plates	Flat pasted
Separator	Microporous Duroplastic
Active Material	Very high purity lead
Case and cover	ABS (VO on request)
Charge voltage	Float 2.27 - 2.30 VPC @ 20°C Cycling 2.40 @ 20°C Max. 2.4 VPC Max ripple 3.5%
Electrolyte	Charging V Sulphuric acid analytical grade purity

CHARGING CHARACTERISTICS

Floating - The optimum float voltage for a battery is temperature dependant, at 15 - 24°C the recommended value is 2.27 - 2.30V. It is recommended that battery installation sites are temperature controlled, however float voltage can be increased or decreased to compensate for temperature variations. Adjustment is calculated at +/- 3 mV per degree C.

Operating Temperature	Recommended Applied Float Voltage VPC
0-9	2.33-2.35
10-14	2.30-2.33
15-19	2.27-2.30
20-24	2.27-2.30
25-29	2.25-2.27
30-34	2.23-2.25
35-40	2.21-2.23

The most suitable charging method for battery life and performance is the constant voltage method with a limited initial current, usually limited to a maximum of $C_{20}/4$. For cyclic use we specify a short constant current phase at the end of normal charging, consult us for further details.

Charging - To obtain maximum cycle life from your battery, it is important that a suitable charging profile is used. For information about our range of chargers and our recommended charging profile, please contact us.