

CHALLENGER G12-180

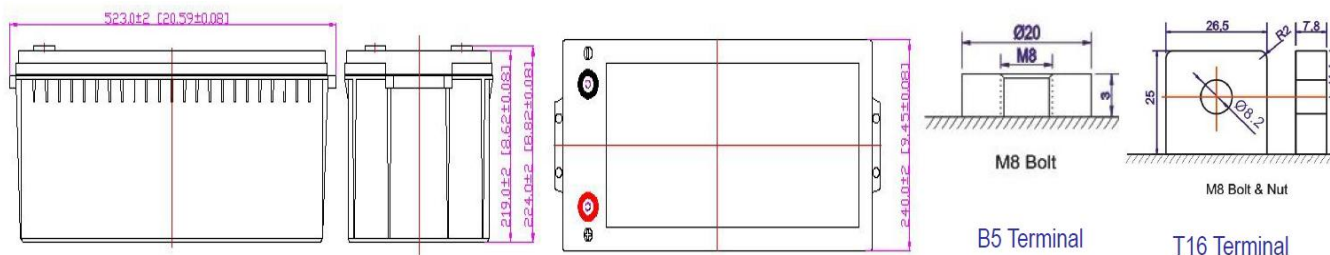
CHALLENGER



Challenger G12-180 – VRLA battery with GEL technology. G12 is designed for cycling usage and discharge application under extreme conditions. By using strong grid, high purity lead and patented GEL electrolyte, G series offer excellent recovery after deep discharge and can deliver 400 cycles at 100% DOD. Suitable for solar, wind energy, photovoltaic, marine and RV, for deep discharge UPS applications.

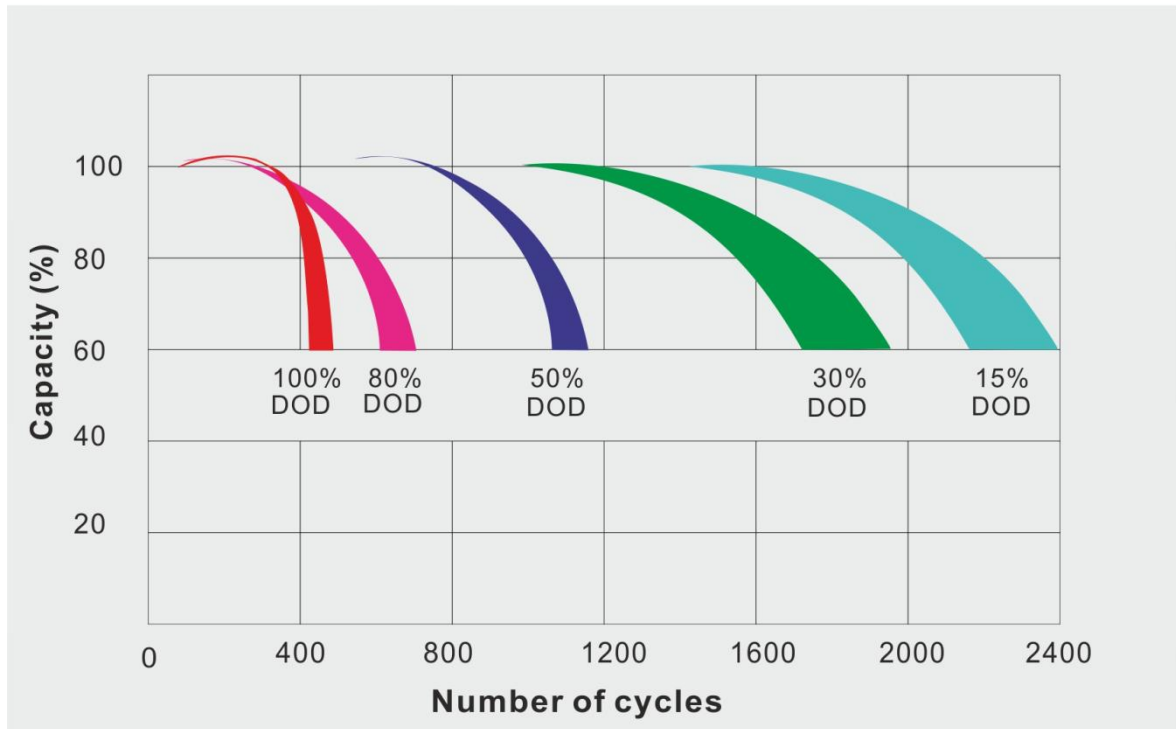
Model	Capacity, Ah		Dimension, mm			Weight, kg
	C10@1,80vpc	C20@1,75vpc	L	W	H	
G12-180	180	180	523	240	219	55.2

Voltage, V	12 V
Max discharge current, A	2000 (5 sec)
Internal resistance	16 mΩ
Operating temperature range	discharge: -20...+60°C charge: -20...+50°C storage: -20...+50°C
Float charging voltage	14.5-15.0 V (25°C)
Recommended max charge current	40,0A
Equalization and cycle service	7.1-7.2V (25°C)
Self Discharge	< 2% / month
Terminals	B5/T16
Case material	ABS (UL94-HB). Option - UL94-HB (V0) (on request)
Positive plate	Flat plate, lead dioxide
Negative plate	Flat plate Pb-Ca-Tn alloy
Lead	99,9998% purity
Separator	PE



Constant Current Discharge(CC,Unit:A) at 25°C (77°F)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	406.7	299.6	260.1	156.9	92.4	54.4	40.6	34.21	28.17	25.92	17.28	8.64
1.80V/Cell	422.3	311.0	270.0	162.9	96.3	56.7	42.3	35.64	29.34	27.00	18.00	9.00
1.75V/Cell	464.5	326.6	283.5	169.4	100.2	58.4	43.6	36.00	29.63	27.27	18.18	9.09
1.70V/Cell	519.4	342.1	297.0	177.6	102.1	59.5	44.4	36.35	29.93	27.54	18.36	9.18
1.67V/Cell	574.3	357.7	310.5	182.4	105.9	61.2	45.7	36.71	30.22	27.81	18.54	9.27
Constant Power Discharge (CP,Unit:W) at 25°C (77°F)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.85V/Cell	772.8	569.2	494.1	298.1	175.7	103.4	77.2	65.01	53.52	49.25	32.83	16.42
1.80V/Cell	802.3	591.0	513.0	309.5	183.0	107.7	80.4	67.72	55.75	51.30	34.20	17.10
1.75V/Cell	882.6	620.5	538.7	321.9	190.3	111.0	82.8	68.39	56.30	51.81	34.54	17.27
1.70V/Cell	986.9	650.1	564.3	337.4	193.9	113.1	84.4	69.07	56.86	52.33	34.88	17.44
1.67V/Cell	1091.2	679.6	590.0	346.7	201.3	116.3	86.8	69.75	57.42	52.84	35.23	17.61

Challenger Deep Cycle GEL G12 Number of cycles vs DOD



Number of cycles for Challenger G12 (80% DOD)

