

DIM - PURE LEAD MULTI APPLICATION
DIM - 12040 (12V40AH)

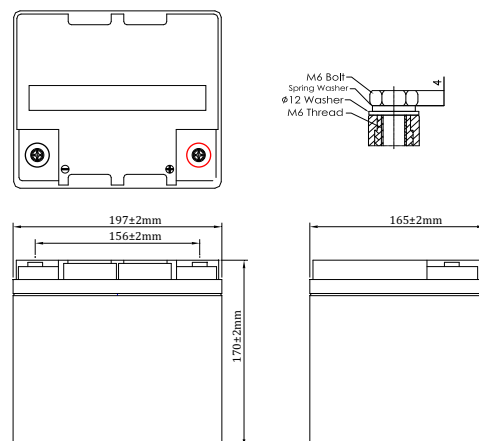
DREAM
INDUSTRIES

SPECIFICATIONS

RATED VOLTAGE	MODEL DIM 12040	12 V
NOMINAL CAPACITY	C10, 1.80V/cell	40 Ah
	C8, 1.75V/cell	40 Ah
DIMENSION	Length	197±2mm
	Width	165±2mm
	Container Height	170±2mm
	Total Height	170±2mm
APPROX. WEIGHT		12.2Kg
TERMINAL		M6
CONTAINER MATERIAL	ABS flame retardant jar and cover	
RATED CAPACITY	40.0 Ah	20Hr, 2.12A, 1.80V/cell
	38.0 Ah	10Hr, 3.80A, 1.80V/cell
	34.8 AH	5Hr, 7.00A, 1.75V/cell
	32.4 Ah	3Hr, 10.8A, 1.75V/cell
	27.2 AH	1Hr, 27.2A, 1.670V/cell
MAX. DISCHARGE CURRENT		450A
INTERNAL RESISTANCE (25°C)	Approx. 6.0 mΩ (Fully charged)	
OPERATING TEMP. RANGE	Discharge	-40~65°C
	Charge	0~54°C
	Storage	-20~40°C
NOMINAL OPERATING TEMP. RANGE		25±3°C
MAX. CHARGING CURRENT (25°C)		11.4 A
CHARGE VOLTAGE(25°C)	Float	13.62V
	Temp. Coefficient	-3mV/cell/°C
	Equalization	14.1~14.4V
EFFECT OF TEMP. TO CAPACITY	40°C	103%
	25°C	100%
	0°C	86%
SELF DISCHARGE	DIM series batteries can be stored up to 24 months at 25°C, For higher temperatures the time interval will be shorter. Battery needs to be given a freshening charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first.	



LAYOUT



CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	77.7	64.2	55.1	42.7	31.7	24.7	15.9	10.6	8.50	6.63	4.57	3.72	2.08
1.80V/cell	86.7	70.5	59.0	44.8	32.9	25.6	16.1	10.7	8.56	6.80	4.66	3.80	2.12
1.75V/cell	91.9	73.7	61.6	46.2	33.8	26.3	16.2	10.8	8.59	6.96	4.75	3.86	2.15
1.70V/cell	96.7	76.8	63.5	47.5	34.5	26.8	16.4	10.9	8.63	7.09	4.80	3.86	2.17
1.67V/cell	104.9	81.6	66.5	48.8	35.1	27.2	16.5	11.0	8.65	7.20	4.86	3.94	2.18
1.60V/cell	110.6	85.1	69.0	50.0	35.7	27.4	16.6	11.1	8.69	7.31	4.93	3.97	2.26

CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C

F.V/Time	10 min	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	147.4	122.8	106.0	83.1	62.6	49.0	31.8	21.2	17.1	13.4	9.26	7.58	4.25
1.80V/cell	161.9	133.1	112.4	86.6	64.7	50.4	32.0	21.4	17.1	13.7	9.40	7.72	4.32
1.75V/cell	169.8	137.8	116.4	88.6	65.9	51.6	32.0	21.5	17.2	13.9	9.57	7.80	4.36
1.70V/cell	176.0	141.9	118.8	90.4	66.9	52.2	32.3	21.7	17.2	14.2	9.66	7.79	4.40
1.67V/cell	189.0	149.2	123.4	92.4	67.8	52.8	32.4	21.7	17.2	14.4	9.76	7.92	4.41
1.60V/cell	194.0	152.4	126.0	93.5	68.2	52.7	32.4	21.8	17.2	14.5	9.82	7.94	4.57