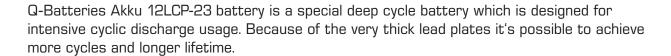


12LCP-23 12V 23Ah



Application

Electric wheelchair, caravan/marine, cleaning machines, golf cart, vehicle lifts, solar energy system, u.v.m.















Specification

12 V Voltage Per Unit

23 Ah Capacity @20hr-rate to 1.8V per cell @25°C

Cells Per Unit 6

Weight ca. 6 kg

220 A (5 sec.) Max. Discharge Current Internal Resistance ca. 14 m Ω

Operating Temperature Range Discharge:

Charge: Storage: Normal - 15°C - 50°C -10°C - 50°C - 20°C - 50°C

Operating Temperature Range $25^{\circ}C \pm 5^{\circ}C$

Self Discharge Valve Regulated Lead Acid (VRLA) batteries can be stored for

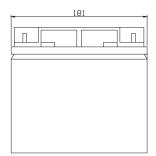
more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.

Terminal F3

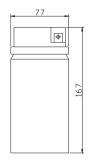
Container Material A.B.S. (UL94-HB)

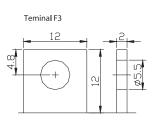
Dimensions

181 Length x 77 Width x 167 mm Height







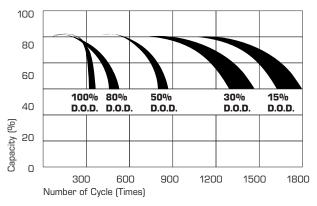




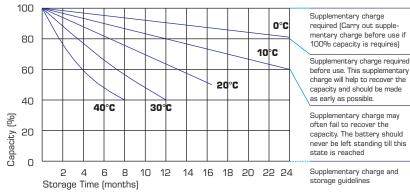
Constant current discharge characteristics: A (25°C)

5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
98.64	65.05	51.36	29.68	16.25	9.95	6.86	5.31	4.37	2.79	2.44	1.33
94.65	62.52	49.93	29.22	16.16	9.87	6.83	5.27	4.34	2.78	2.42	1.28
89.53	60.37	48.57	28.99	16.02	9.81	6.81	5.20	4.31	2.77	2.39	1.26
80.88	56.70	45.82	28.34	15.80	9.71	6.74	5.15	4.28	2.76	2.37	1.21
72.24	52.83	43.05	27.65	15.52	9.66	6.68	5.11	4.26	2.75	2.32	1.16
63.66	48.95	40.30	26.75	15.14	9.51	6.60	4.97	4.23	2.74	2.29	1.14
	98.64 94.65 89.53 80.88 72.24	98.64 65.05 94.65 62.52 89.53 60.37 80.88 56.70 72.24 52.83	98.64 65.05 51.36 94.65 62.52 49.93 89.53 60.37 48.57 80.88 56.70 45.82 72.24 52.83 43.05	98.64 65.05 51.36 29.68 94.65 62.52 49.93 29.22 89.53 60.37 48.57 28.99 80.88 56.70 45.82 28.34 72.24 52.83 43.05 27.65	98.64 65.05 51.36 29.68 16.25 94.65 62.52 49.93 29.22 16.16 89.53 60.37 48.57 28.99 16.02 80.88 56.70 45.82 28.34 15.80 72.24 52.83 43.05 27.65 15.52	98.64 65.05 51.36 29.68 16.25 9.95 94.65 62.52 49.93 29.22 16.16 9.87 89.53 60.37 48.57 28.99 16.02 9.81 80.88 56.70 45.82 28.34 15.80 9.71 72.24 52.83 43.05 27.65 15.52 9.66	98.64 65.05 51.36 29.68 16.25 9.95 6.86 94.65 62.52 49.93 29.22 1616 9.87 6.83 89.53 60.37 48.57 28.99 16.02 9.81 6.81 80.88 56.70 45.82 28.34 15.80 9.71 6.74 72.24 52.83 43.05 27.65 15.52 9.66 6.68	98.64 65.05 51.36 29.68 16.25 9.95 6.86 5.31 94.65 62.52 49.93 29.22 16.16 9.87 6.83 5.27 89.53 60.37 48.57 28.99 16.02 9.81 6.81 5.20 80.88 56.70 45.82 28.34 15.80 9.71 6.74 515 72.24 52.83 43.05 27.65 15.52 9.66 6.68 511	98.64 65.05 51.36 29.68 16.25 9.95 6.86 5.31 4.37 94.65 62.52 49.93 29.22 1616 9.87 6.83 5.27 4.34 89.53 60.37 48.57 28.99 16.02 9.81 6.81 5.20 4.31 80.88 56.70 45.82 28.34 15.80 9.71 6.74 515 4.28 72.24 52.83 43.05 27.65 15.52 9.66 6.68 5.11 4.26	98.64 65.05 51.36 29.68 16.25 9.95 6.86 5.31 4.37 2.79 94.65 62.52 49.93 29.22 16.16 9.87 6.83 5.27 4.34 2.78 89.53 60.37 48.57 28.99 16.02 9.81 6.81 5.20 4.31 2.77 80.88 56.70 45.82 28.34 15.80 9.71 6.74 515 4.28 2.76 72.24 52.83 43.05 27.65 15.52 9.66 6.68 511 4.26 2.75	98.64 65.05 51.36 29.68 16.25 9.95 6.86 5.31 4.37 2.79 2.44 94.65 62.52 49.93 29.22 16.16 9.87 6.83 5.27 4.34 2.78 2.42 89.53 60.37 48.57 28.99 16.02 9.81 6.81 5.20 4.31 2.77 2.39 80.88 56.70 45.82 28.34 15.80 9.71 6.74 5.15 4.28 2.76 2.37 72.24 52.83 43.05 27.65 15.52 9.66 6.68 5.11 4.26 2.75 2.32

Life characteristics of cyclic use



Storage characteristic



required (Carry out suppleentary charge before use if

before use. This supplementary charge will help to recover the capacity and should be made

Supplementary charge may capacity. The battery should never be left standing till this

Capacity Factors with different Temperature

Batte	ery Type	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL	6V & 12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM	6V & 12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Charging Method

Charge the batteries at least once every six months, if they are stored at 25°C

Constant Voltage (V)	-0.2C x 2h + 2.4–2.45V/Cell x 24h, max. Current 0.3CA
Constant Current (A)	-0.2C x 2h + 0.1CA x 12h
Fast	-0.2C x 2h + 0.3CA x 4.0h