### 12LCP-30

12 V 30 Ah



Q-Batteries Akku 12LCP-30 battery is a special deep cycle battery which is designed for intensive cyclic discharge usage. Because of the very thick lead plates it's possible to achieve more cycles and longer lifetime.

#### Application:

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















#### Specification:

Voltage Per Unit 12 V

Capacity 30 Ah @20hr-rate to 1.8V per cell @25°C

Cells Per Unit 6

Weight ca. 9 kg +/- 3% Max. Discharge Current 260 A (5 sec.) Internal Resistance ca. 8 m  $\Omega$ 

Operating Temperature Range Discharge: Charge: Storage:

Normal - 15°C - 50°C - 10°C - 50°C - 20°C - 50°C

Operating Temperature Range 25°C ± 5°C

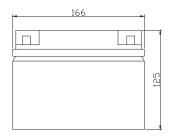
Self Discharge Valve Regulated Lead Acid (VRLA) batteries can be stored for

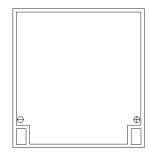
more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.

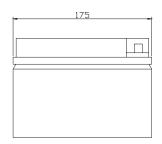
Terminal F13 (M5)

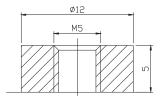
Container Material A.B.S. (UL94-HB)

#### Dimensions: 166 Length x 175 Width x 125 mm Height







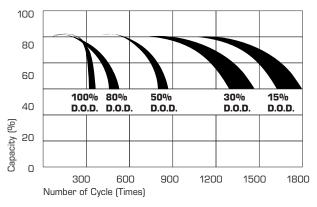




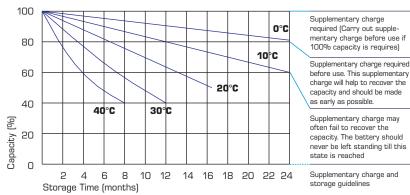
#### Constant current discharge characteristics: A (25°C)

5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
125.5	82.79	65.37	37.77	20.68	12.66	8.73	6.76	5.56	3.56	3.11	1.69
120.5	79.57	63.55	37:19	20.56	12.56	8.70	6.70	5.52	3.54	3.08	1.63
114.0	76.83	61.82	36.90	20.38	12.49	8.66	6.61	5.49	3.53	3.04	1.60
102.9	72:16	58.32	36.06	20.11	12.36	8.58	6.55	5.45	3.51	3.01	1.54
91.9	67.24	54.79	35.19	19.75	12.29	8.50	6.50	5.42	3.50	2.95	1.48
81.0	62.30	51.29	34.05	19.27	12:11	8.39	6.32	5.39	3.49	2.92	1.45
	125.5 120.5 114.0 102.9 91.9	125.5 82.79 120.5 79.57 114.0 76.83 102.9 72.16 91.9 67.24	125.5 82.79 65.37   120.5 79.57 63.55   114.0 76.83 61.82   102.9 72.16 58.32   91.9 67.24 54.79	125.5 82.79 65.37 37.77   120.5 79.57 63.55 37.19   114.0 76.83 61.82 36.90   102.9 72.16 58.32 36.06   91.9 67.24 54.79 35.19	125.5 82.79 65.37 37.77 20.68   120.5 79.57 63.55 37.19 20.56   114.0 76.83 61.82 36.90 20.38   102.9 72.16 58.32 36.06 20.11   91.9 67.24 54.79 35.19 19.75	125.5 82.79 65.37 37.77 20.68 12.66   120.5 79.57 63.55 37.19 20.56 12.56   114.0 76.83 61.82 36.90 20.38 12.49   102.9 72.16 58.32 36.06 20.11 12.36   91.9 67.24 54.79 35.19 19.75 12.29	125.5 82.79 65.37 37.77 20.68 12.66 8.73   120.5 79.57 63.55 37.19 20.56 12.56 8.70   114.0 76.83 61.82 36.90 20.38 12.49 8.66   102.9 72.16 58.32 36.06 20.11 12.36 8.58   91.9 67.24 54.79 35.19 19.75 12.29 8.50	125.5 82.79 65.37 37.77 20.68 12.66 8.73 6.76   120.5 79.57 63.55 37.19 20.56 12.56 8.70 6.70   114.0 76.83 61.82 36.90 20.38 12.49 8.66 6.61   102.9 72.16 58.32 36.06 20.11 12.36 8.58 6.55   91.9 67.24 54.79 35.19 19.75 12.29 8.50 6.50	125.5 82.79 65.37 37.77 20.68 12.66 8.73 6.76 5.56   120.5 79.57 63.55 37.19 20.56 12.56 8.70 6.70 5.52   114.0 76.83 61.82 36.90 20.38 12.49 8.66 6.61 5.49   102.9 72.16 58.32 36.06 20.11 12.36 8.58 6.55 5.45   91.9 67.24 54.79 35.19 19.75 12.29 8.50 6.50 5.42	125.5 82.79 65.37 37.77 20.68 12.66 8.73 6.76 5.56 3.56   120.5 79.57 63.55 37.19 20.56 12.56 8.70 6.70 5.52 3.54   114.0 76.83 61.82 36.90 20.38 12.49 8.66 6.61 5.49 3.53   102.9 72.16 58.32 36.06 20.11 12.36 8.58 6.55 5.45 3.51   91.9 67.24 54.79 35.19 19.75 12.29 8.50 6.50 5.42 3.50	125.5 82.79 65.37 37.77 20.68 12.66 8.73 6.76 5.56 3.56 3.11   120.5 79.57 63.55 37.19 20.56 12.56 8.70 6.70 5.52 3.54 3.08   114.0 76.83 61.82 36.90 20.38 12.49 8.66 6.61 5.49 3.53 3.04   102.9 72.16 58.32 36.06 20.11 12.36 8.58 6.55 5.45 3.51 3.01   91.9 67.24 54.79 35.19 19.75 12.29 8.50 6.50 5.42 3.50 2.95

# Life characteristics of cyclic use:



## Storage characteristic:



#### 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