

12LCP-50 12V 50Ah

Q-Batteries Akku 12LCP-50 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.



MOTIVE

13 B P2

FRIES

Specification:

Voltage Per Unit12 VCapacity50 Ah@20hr-rate to 1.8V per cell @25°CCells Per Unit6Weightca. 14.6 kg +/- 3%Max. Discharge Current450 A (5 sec.)	•						
Cells Per Unit6Weightca. 14.6 kg +/- 3%	Itage Per Unit						
Weight ca. 14.6 kg +/- 3%	apacity	@20hr-rate to 1.8V per cell @25°C					
	ells Per Unit						
Max. Discharge Current 450 A (5 sec.)	eight	ca. 14.6 kg +/- 3%					
	ax. Discharge Current						
Internal Resistance ca. 7 m Ω	ernal Resistance						
Operating Temperature RangeDischarge:Charge:Storage:Normal- 15°C - 50°C-10°C - 50°C- 20°C - 50°C	5 1 5	0 0					
Operating Temperature Range 25°C ± 5°C	perating Temperature Range						
more than 6 months at 25°C. Self-discharge ratio less tha	lf 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 F11 (M6)	rminal	F11 (M6)					
Container Material A.B.S. (UL94-HB)	ontainer Material	B)					

198 Length x 166 Width x 171 mm Height

Dimensions:

198 171









12LCP-50

Constant current discharge characteristics: A (25°C)

F.V/Time	5 Min.	10 Min.	15 M in.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
9.60 V	161.3	117.7	89.35	53.46	31.59	18.35	12.68	10.783	8.748	5.762	4.779	2.650
10.0 V	156.7	112.0	87.52	52.53	31.44	18.21	12.63	10.733	8.697	5.715	4.733	2.602
10.2 V	152.0	108.1	86.14	51.83	31.15	18.07	12.54	10.683	8.645	5.668	4.687	2.554
10.5 V	136.5	99.73	82.02	51.17	30.86	17.94	12.49	10.583	8.542	5.622	4.641	2.506
10.8 V	123.2	90.94	75.15	50.30	30.13	17.61	12.15	10.334	8.388	5.528	4.595	2.457
11.1 V	105.2	81.28	66.92	47.09	28.62	16.83	11.61	9.835	8.028	5.294	4.458	2.313

Life characteristics of cyclic use:

100 80 60 100% 15% 80% 50% 30% 40 D.O.D. D.O.D. D.O.D. D.O.D. D.O.D. Capacity (%) 20 0 900 1800 300 600 1200 1500 Number of Cycle (Times)

Storage characteristic:



Supplementary charge required (Carry out supplementary charge before use if 100% capacity is requires)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

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