SPECIFICATION: CP640E (6V4Ah)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

GENERAL FEATURES

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- I Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- **I** Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- I Maintenance-free operation.
- Low self discharge.
- I Case and cover available in both standard and flame retardant ABS.

CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

TECHNOLOGY PARAMETER

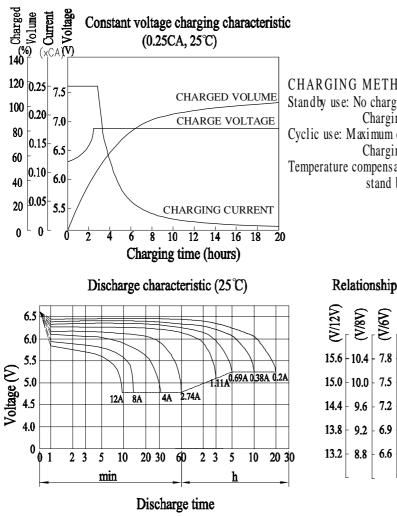
Battery model	CP640E							
Nominal voltage	6V							
Number of cell	3							
Capacity	20hR(0.2A, 5.25V) 10hR(0.38A, 5.25		5hR(0.69A, 5.25V)	1hR(2.74A, 4.80V)				
(25°C)	4Ah 3.8Ah 3.45Ah		3.45Ah	2.74Ah				
D: '	Length	Width	Height	Total Height				
Dimensions	70±1mm	47±1mm	98 ±1 mm	104±1mm				
Approx. weight	0.66Kg (1.45 lbs)							
Internal resistance	Full charged at 25°C: 30mOhms							
Self discharge	3% of capacity declined per month at 20°C (average)							
Operating temperature	Discharge	Cha	rge	Storage				
range	-20~60°C	-10~	60°C	-20∼60°C				
Max. discharge current (25°C)	60A (5s)							
Short circuit current	200A							

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	14.7	11.8	7.84	4.41	2.74	1.18	0.74	0.41	0.21
1.65V	13.9	11.2	7.50	4.23	2.65	1.15	0.73	0.40	0.21
1.70V	13.1	10.6	7.14	4.05	2.54	1.11	0.71	0.39	0.20
1.75V	12.3	10.0	6.76	3.85	2.43	1.06	0.69	0.38	0.20
1.80V	11.5	9.42	6.39	3.65	2.31	1.02	0.66	0.37	0.20

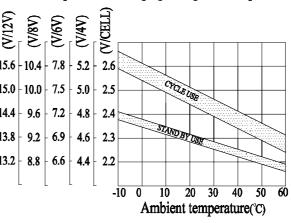
Constant current discharge ratings-amperes at 25°C(77°F)

Constant power discharge ratings-watts per cell at 25°C(77°F)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	28.3	18.7	1 4.9	8.67	6.72	5.41	3.35	2.35	1.47
1.65V	26.6	1 7.6	14.1	8.23	6.41	5.19	3.25	2.30	1.44
1.70V	24.8	1 6.5	13.3	7.79	6.09	4.95	3.14	2.23	1.41
1.75V	23.1	15.4	12.5	7.34	5.76	4.70	3.01	2 .17	1.38
1.80V	21.4	1 4.3	11.7	6.88	5.43	4.45	2.88	2.09	1.35

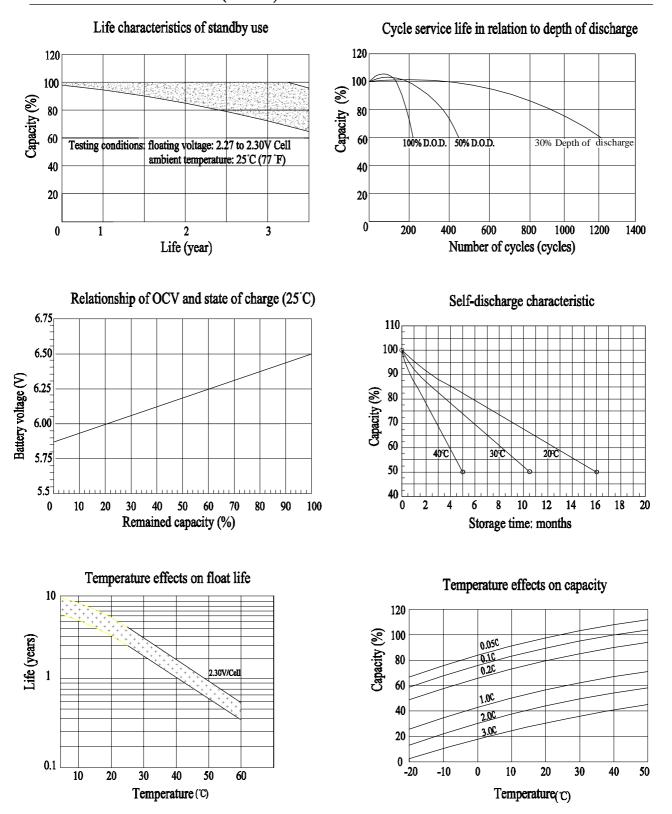


CHARGING METHODS: Constant voltage charging at 25°C Standby use: No charging current limit is required Charging voltage: 2.23-2.27VPC Cyclic use: Maximum charging current: 40% of rated capacity Charging voltage: 2.30-2.35VPC Temperature compensation : stand by -10mV/°C; cyclic use -15mV/°C



Relationship between charging voltage and temperature

SPECIFICATION: CP640E(6V4Ah)



Battery and terminal dimensions

