

FLOODED



MARINE

GOLF

INDUSTRIAL

AUTO

SPECIAL
APPLICATIONS

SOLAR

LEAD-CALCIUM BATTERY

MCT-4000 HP

MCT SERIES

- Voltage: 2V
- Reserve Capacity: 4000 Ah@8hr rate to 1.75VPC @ 77F (1.215 s.g.)
- Weight: 675 lbs (306 kgs)
- Length: 15.19 in (386 mm)
- Width: 17.32 in (440 mm)
- Height: 28.9 in (735 mm)
- Plates per Cell: 45
- Electrolyte: Sulfuric acid, 1.215 s.g. nominal @77°F (25°C)
- Separator: PVC with fiberglass mesh retainers
- Container: PVC thermoplastic (UL94 V-0; LOI > 33)
- Cover: Flame-retardant PVC thermoplastic
- Recommended Float Voltage: 2.20-2.25 VPC (1.215 s.g.)
- Terminals: Four 1.375 in (35mm) square posts per cell



STANDBY BATTERIES FOR LARGE POWER APPLICATIONS

The NEBS qualified MCT-HP Flooded Lead Acid battery offers 4,000 Ampere-hours with a 20-year design life for large capacity standby power applications for telecom. Used in Telephone Central Offices, Mobile Telephone Switching Office, Cable Head End Sites, Fiber Optic Regenerator Sites, Microwave Repeater Sites, Telephone & Internet Network Nodes.

WWW.NATIONWIDE-BATTERY.COM

**CD
TECHNOLOGIES**

MODEL **MCT-4000 HP**
 VOLTAGE **2V**
 CAPACITY **4000Ah @ hrto 1.75VPC (1.215 s.g.)**
 CONTAINER **PVC thermoplastic (UL94 V-0)**
 COVER **Flame-retardant PVC thermoplastic**
 BATTERY TYPE **Lead-Calcium**

2V

PRODUCT + PHYSICAL SPECIFICATIONS

Serie	Model	Voltage	Cell(s)	Terminal Quantity	Dimensions ^c Inches (mm)			Weight Lbs. (kg)
					Length	Width	Height ^f	
MCT	MCT-4000 HP	2	1	4	15.19 (386)	17.32 (440)	28.9 (735)	675 (306)

ELECTRICAL SPECIFICATIONS

VPC	NOMINAL RATE @ 77F (+25C) IN 1.215 SPECIFIC GRAVITY						
	AMPERES						
	30 MIN	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR
1.75	2146.1	1713	1215	960	803	694	500
1.80	1801	1531	1141	910	762	659	475
1.84	1479.7	1307	1025	833	704	611	444
1.86	1315.1	1199	979	803	677	586	424
1.88	1144.3	1063	897	748	633	548	397

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)					
System Voltage	2V	6V	24V	48V	125V
Bulk / Equalize Charge	2.35	7.05	28.20	56.40	141.00
Float Charge	2.25	6.75	27.00	54.00	135.00
High Voltage Alarm	2.45	7.35	29.40	58.80	147.00
Low Voltage Alarm	1.75	5.25	21.00	42.00	105.00
Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.					

CHARGING TEMPERATURE COMPENSATION

Add	Subtract
0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C 0.0028 volt per cell for every 1°F above 77°F

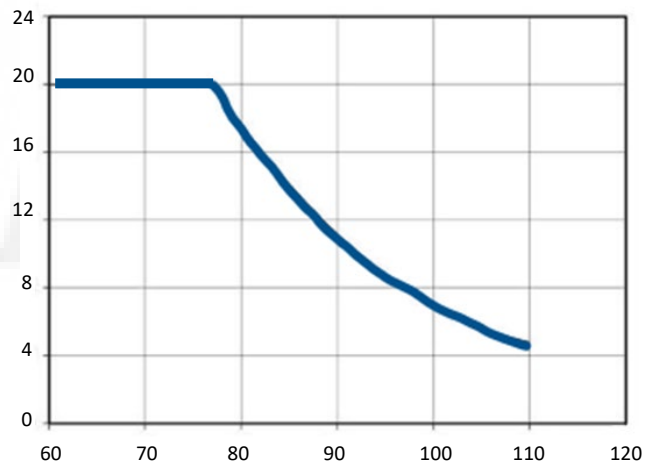
OPERATIONAL DATA

Operating Temperature	Self Discharge
Recommended operating temperature range 60F (15 C) – 90F (32 C) Limit Operating Range 32F (0 C) – 120F (49 C)	Less than 3% per month depending on storage temperature conditions

STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

Percentage Charge	Cell	Specific Gravity
100	2.06 - 2.08	1.210 - 1.220
75	2.03 - 2.04	1.185 - 1.195
50	2.00 - 2.01	1.160 - 1.170
25	1.97 - 1.98	1.135 - 1.145
0	1.95 or less	1.110 - 1.120

BATTERY LIFE v AMBIENT TEMPERATURE



MCT-4000 HP Lead-Calcium Battery



FOR TELECOM, SWITCHGEAR & CONTROL, AND UPS APPLICATIONS

Capacity 4000 Ampere-hours @ 8hr rate
INDIVIDUAL POSTS PER CELL

C&D Technologies' flooded batteries are engineered to provide superior performance and reliability over the life of the product. These batteries are designed using proprietary techniques and quality components and materials for reduced maintenance and extended battery life.

FEATURES & BENEFITS

FLOODED

- Optimized for today's Telecom applications
- 4000 Amp-hours capacity
- NEBS level 3 certified
- Transparent container allows visual inspection of plates
- Container wall stiffening rim to reinforce jar integrity
- Container support cradle adds durability, restrains bulge at elevated temperatures, enhances seismic performance, and functions as cell spacer

SPECIFICATIONS

- Flame-retardant covers enhance battery plant safety
- Soft rubber post seal absorbs shock and vibration
- Long life positive plates cast with a proprietary process and alloy
- CLEI number: PWCYAV4BRA
- CPR number: 215023

APPLICATIONS

- Telephone Central Offices
- Mobile Telephone Switching Office
- Cable Head End Sites
- Fiber Optic Regenerator Sites
- Microwave Repeater Sites
- Telephone & Internet Network Nodes

