FLOODED

NATIONWIDE BATTERY

MARINE | GOLF | INDUSTRIAL | AUTO | SPECIAL APPLICATIONS | SOLAR

LEAD-CALCIUM BATTERY

KCT-540

KCT SERIES

- Voltage: 2V
- Plates per Cell: 13
- Reserve Capacity: 540 Ah@8hr rate to 1.75VPC @ 77F
- Weight: 111 lbs (50.3 kg)
- Length: 6.59 in (167 mm)
- Width: 10.44 in (265 mm)
- Height: 18.25 in (464 mm)
- Positive Plate Height: 11.38 in (289 mm)
- Negative Plate Height: 11.38 in (289 mm)
- Separator: Microporous with fibrous glass mat
- Container: Thermoplastic, transparent (SAN)
- Cover: PVC flame retardant, UL 94-V0
- Recommended Float Voltage: 2.17-2.22 V/cell (calcium)
- Terminals: Two, 1-inch (25 mm) square posts

EVERY BATTERY 100% CAPACITY TESTED

FOR TELECOMMUNICATIONS APPLICATIONS

The NEBS-approved KCT battery offers a wide range of capacities within a small footprint, making it ideal for a range of Telecom applications. KCT lead-calcium stationary batteries can be found in telephone central offices, mobile telephone switching offices, cable headend sites, fiber optic regenerator sites, microwave repeater sites, telephone and internet network nodes, and more.

C&D TECHNOLOGIES

C&D TECHNOLOGIES

MODEL **KCT-540**
VOLTAGE **2V**
CAPACITY **540Ah @ hr to 1.75VPC**
CONTAINER **Thermoplastic, transparent (SAN)**
COVER **PVC flame retardant, UL 94-V0**
BATTERY TYPE **Lead-Calcium**
PLATES PER CELL **13**

2V

PRODUCT + PHYSICAL SPECIFICATIONS

Serie	Model	Voltage	Cell(s)	Terminal Quantity	Dimensions [C] Inches (mm)			Weight Lbs. (kg)
					Length	Width	Height [F]	
KCT	**KCT-540**	**2**	**1**	2	**6.59 (167)**	**10.44 (265)**	**18.25 (464)**	**111 (50.3)**

ELECTRICAL SPECIFICATIONS

VPC	Ah @ 8hr Rate	NOMINAL RATE @ 77F (+25C) IN 1.215 SPECIFIC GRAVITY (INCLUDES CONNECTION DROP)								
		AMPERES (per cell)								
		1 HR	2 HR	3 HR	4 HR	5 HR	6 HR	8 HR	10 HR	24 HR
1.75	**540**	242	166	132	110	96	84	66	58	28
1.80	**528**	224	158	124	104	90	80	64	56	28
1.84	**496**	192	142	114	96	84	74	60	53	26
1.86	**464**	174	132	106	90	80	70	56	50	24
1.88	**432**	150	118	98	84	74	66	52	46	23
1.90	**408**	126	105	90	78	69	62	51	44	22
1.92	**354**	98	84	74	65	58	53	44	38	20

ISO 9001 KEMA CERTIFIED

NATIONWIDE BATTERY

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)					
System Voltage	2V	4V	24V	48V	125V
Bulk / Equalize Charge	2.35	4.70	28.20	56.40	141.00
Float Charge	2.22	4.44	26.64	53.28	133.20
High Voltage Alarm	2.45	4.90	29.40	58.80	147.00
Low Voltage Alarm	1.75	3.50	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

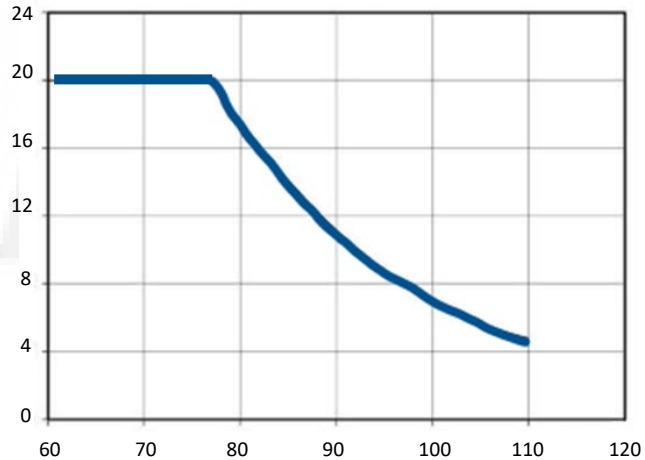
OPERATIONAL DATA

Operating Temperature	Self Discharge
Reccomended 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



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LEAD RETURN RECYCLE

NATIONWIDE BATTERY

KCT Lead-Calcium Battery

FOR TELECOMMUNICATIONS APPLICATIONS

Capacity: 270 to 720 Ampere-hours

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

- Electrical testing (capacity test) on every cell prior to shipping assures performance of every battery upon delivery.
- Proprietary vacuum-assisted, bottom-pour, positive-grid casting assures void-free grid quality resulting in 20 year service life.
- Waterbath charging results in consistently formed plates for reliable performance out of the box (no cycling required in the field).
- Suspended positive plates permit free growth without pressure on jar and cover.

SAFE OPERATION

- Standard flame-retardant covers enhance battery plant safety with self-extinguishing properties, LOI>32%, UL 94V-0.
- Low-evaporation, flame-arrester vent to extend watering intervals and prevent external sparks from reacting with the hydrogen inside the cell.

COST SAVINGS

- Transparent container allows visual inspection of plates
- Soft rubber post seal minimizes stress on post reducing maintenance requirements
- Computer controlled heli-arc welded post seals result in consistent and reliable seals for less maintenance and longer product life

APPLICATIONS

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