



NiCd-Mak Series Nickel Cadmium Batteries

10Ah – 1200Ah NiCd Batteries



1. Have packing room, welding room, assembling room, heating room, production room and more
2. Wide operating temperature range: -25°C to 45°C
3. Long service life: more than 20 years
4. Excellent charging efficiency and smooth discharge voltage
5. High resistance to mechanical and electrical abuse
6. Plastic material is produced by our own factory
7. Low maintenance cost and replacement cost
8. 30 years nickel-cadmium batteries manufacture experiences
9. One of the top three supplier in China nickel-cadmium battery field
10. We can design the battery according to the customer's requirement

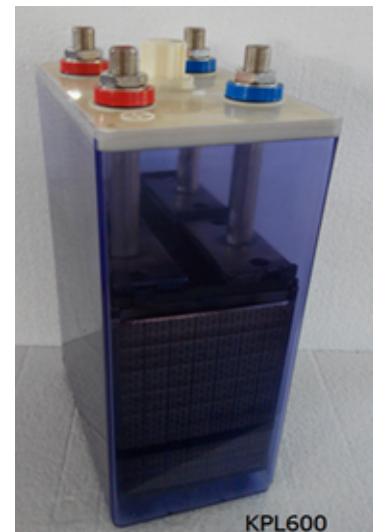
There are low, medium, high, ultra high rate discharge types.



1. KPL TYPE (Low Discharge Rate Cell)

KPL Series low rate nickel cadmium battery is made of pocket plates.

Low rate cell for Railway signaling, Alarms, Telecommunications, UPS, etc



KPL600



2. KPM TYPE (Medium Discharge Rate Cell)

KPM Series medium rate nickel cadmium battery is made of pocket plates.

Medium rate cell for railroad DC power sources, UPS, Power plant, Gas turbine control, etc.



3. KPH TYPE=GNG (High Discharge Rate Cell)

KPH Series high rate nickel cadmium battery is made of pocket plate with the characteristics of thin plate, high porosity and low internal resistance.

High rate cells for Engine starting, Switchgears, uninterruptible power supply, etc



KPM60



4. KPX type=GNC (Ultra high rate cell)

KPX series ultra high rate nickel cadmium battery which made of sintered plate is characterized by compact construction, low internal resistance, high reliability, high capacity, long service life and excellent low temperature performance.

Ultra high rate cells for Engine starting, Emergency back-up power, Civil aviation, etc



NiCd-Mak Series Nickel Cadmium Batteries

Cell Performance

L Range

Final discharge voltage 1.05V per cell (KPL=GN)

Cell type	Capacity (Ah)	Hours					Minutes					
		8	5	3	2	1	30	20	15	10	5	1
GN10	10	1.3	1.9	2.8	4	6	6.5	7	8	8.5	10	12
GN20	20	2.5	3.9	5.6	8	12	13	14	16	17	20	24
GN22	22	2.8	4.3	6.2	8.8	13.2	14.3	15.4	17.6	18.7	22	26.4
GN30	30	3.8	5.8	8.4	12	18	19.5	21	24	25.5	30	36
GN40	40	5	7.8	11.2	16	24	26	28	32	34	40	48
GN45	45	5.6	8.7	12.6	18	27	29.3	31.5	36	38.3	45	54
GN50	50	6.3	9.7	14	20	30	32.5	35	40	42.5	50	60
GN60	60	7.5	11.6	16.8	24	36	39	42	48	51	60	72
GN70	70	8.8	13.6	19.6	28	42	45.5	49	56	59.5	70	84
GN80	80	10	15.5	22.4	32	48	52	56	64	68	80	96
GN90	90	11.3	17.5	25.2	36	54	58.5	63	72	76.5	90	108
GN100	100	12.5	19.4	28	40	60	65	70	80	85	100	120
GN110	110	13.8	21.3	30.8	44	66	71.5	77	88	93.5	110	132
GN120	120	15	23.3	33.6	48	72	78	84	96	102	120	144
GN150	150	18.8	29.1	42	60	90	97.5	105	120	127.5	150	180
GN200	200	25	38.8	56	80	120	130	140	160	170	200	240
GN250	250	31.3	48.5	70	100	150	162.5	175	200	212.5	250	300
GN300	300	37.5	58.2	84	120	180	195	210	240	255	300	360
GN400	400	50	77.6	112	160	240	260	280	320	340	400	480
GN500	500	62.5	97	140	200	300	325	350	400	425	500	600
GN600	600	75	116.4	168	240	360	390	420	480	510	600	720
GN700	700	87.5	135.8	196	280	420	455	490	560	595	700	840
GN800	800	100	155.2	224	320	480	520	560	640	680	800	960
GN900	900	112.5	174.6	252	360	540	585	630	720	765	900	1080
GN1000	1000	125	194	280	400	600	650	700	800	850	1000	1200
GN1100	1100	137.5	213.4	308	440	660	715	770	880	935	1100	1320
GN1200	1200	150	232.8	336	480	720	780	840	960	1020	1200	1440



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Cell Performance

M Range

Final discharge voltage 1.05V per cell (KPM=GNZ)

Cell type	Capacity (Ah)	Hours					Minutes						Seconds		
		8	5	3	2	1	30	20	15	10	5	1	30	5	1
GNZ10	10	1.2	2.0	3.1	4.2	7	9	11.5	12	13.2	16	20	22	25	30
GNZ20	20	2.5	3.9	6.2	8.4	14	18	23	24	26.4	32	40	44	50	60
GNZ30	30	3.7	5.9	9.3	12.6	21	27	34.5	36	39.6	48	60	66	75	90
GNZ40	40	5.0	7.8	12.4	16.8	28	36	46.0	48	52.8	64	80	88	100	120
GNZ45	45	5.6	8.8	14.0	18.9	31.5	40.5	51.8	54	59.4	72	90	99	112.5	135
GNZ50	50	6.2	9.8	15.5	21	35	45	57.5	60	66	80	100	110	125	150
GNZ60	60	7.4	11.8	18.6	25.2	42	54	69	72	79.2	96	120	132	150	180
GNZ70	70	8.7	13.7	21.7	29.4	49	63	80.5	84	92.4	112	140	154	175	210
GNZ75	75	9.3	14.7	23.3	31.5	52.5	67.5	86.3	90	99	120	150	165	187.5	225
GNZ80	80	9.9	15.7	24.8	33.6	56	72	92	96	105.6	128	160	176	200	240
GNZ90	90	11.2	17.6	27.9	37.8	63	81	103.5	108	118.8	144	180	198	225	270
GNZ100	100	12.4	19.6	31	42	70	90	115	120	132	160	200	220	250	300
GNZ120	120	14.9	23.5	37.2	50.4	84	108	138	144	158.4	192	240	264	300	360
GNZ150	150	18.6	29.4	46.5	63	105	135	172.5	180	198	240	300	330	375	450
GNZ200	200	24.8	39.2	62	84	140	180	230	240	264	320	400	440	500	600
GNZ250	250	31	49	77.5	105	175	225	287.5	300	330	400	500	550	625	750
GNZ300	300	37.2	58.8	93	126	210	270	345	360	396	480	600	660	750	900
GNZ400	400	49.6	78.4	124	168	280	360	460	480	528	640	800	880	1000	1200
GNZ500	500	62	98	155	210	350	450	575	600	660	800	1000	1100	1250	1500
GNZ600	600	74.4	117.6	186	252	420	540	690	720	792	960	1200	1320	1500	1800
GNZ700	700	86.8	137.2	217	294	490	630	805	840	924	1120	1400	1540	1750	2100
GNZ800	800	99.2	156.8	248	336	560	720	920	960	1056	1280	1600	1760	2000	2400
GNZ900	900	111.6	176.4	279	378	630	810	1035	1080	1188	1440	1800	1980	2250	2700
GNZ1000	1000	124	196	310	420	700	900	1150	1200	1320	1600	2000	2200	2500	3000
GNZ1100	1100	136.4	215.6	341	462	770	990	1265	1320	1452	1760	2200	2420	2750	3300
GNZ1200	1200	148.8	235.2	372	504	840	1080	1380	1440	1584	1920	2400	2640	3000	3600



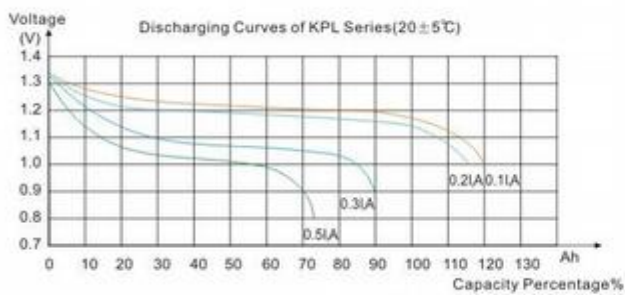
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Battery Layout

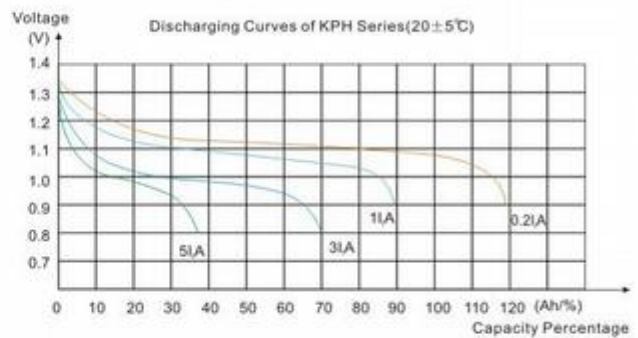
We can design different battery racks according to the different requirements of customers, that is the layout of different batteries



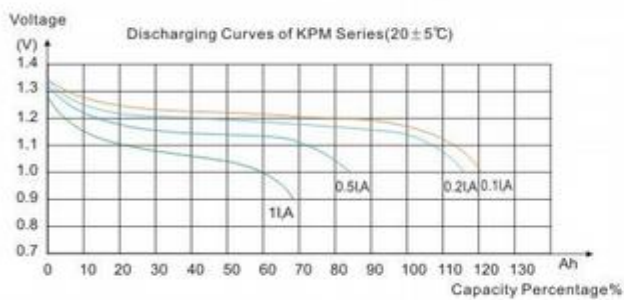
The Battery Discharging Characteristics



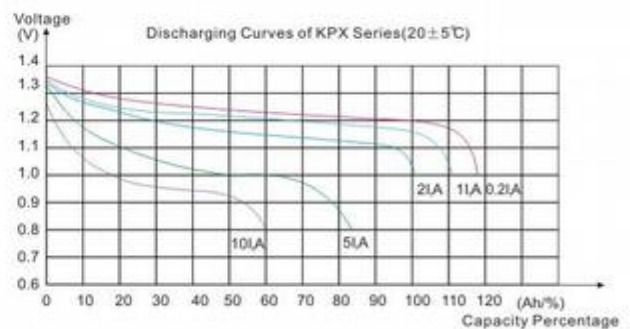
KPL Series



KPH Series



KPM Series



KPX Series