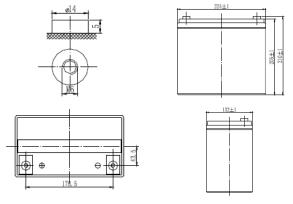
# KBC12550 12V 55Ah

Kaise

The Kaise cyclic batteries were developed for deep discharges with very heavy non-porous battery plates to withstand major discharging and charging cycles (deep cycle). These batteries use different chemistry combinations for the plates with active paste material and a slightly stronger than normal electrolyte, which allows for a much longer life in deep cycle applications.

# Dimensions and Terminal (Unit: mm (inches))



# **Applications**

Solar power systems Electric wheel chairs Golf carts Maritime equipment Power plants Railway systems Telecommunications systems Cable TV systems Emergency power systems

# Certifications

ISO 9001:2008 ISO 14001:2008



# Discharge Current vs. Discharge Voltage

Final discharge voltage V/CELL	1,8	1,75	1,7	1,6	
Discharge current (A)	≤ 0,1CA	$0.25CA \ge I > 0.1CA$	$0.55CA \ge I > 0.25CA$	> 0.55CA	

#### Discharge Constant Power (Watts per cell) at 77°F (25°C)

Volts/cell	10min	15min	30min	1h	2h	3h	5h
1.80V	179	150	101	63.1	35.5	26.4	17.8
1.75V	192	157	102	63.3	36.1	27.0	17.9
1.70V	205	164	104	64.8	36.9	27.6	18.1
1.60V	220	177	108	67.9	38.6	28.8	18.7

# (Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

# Performance Characteristics

12V				
Length (mm / inch)	224 / 9.41			
Width (mm / inch)	132 / 5.43			
Height (mm / inch)	205 / 8.07			
Total Height (mm / inch	) 210 / 8.27			
(Kg / lbs)	17.3 / 38.1			
10 years				
M6				
ABS				
52.8Ah / 5.28A	(10hr, 1.70V / cell, 25ºC / 77ºF)			
32.8Ah / 32.8A	(1hr, 1.70V / cell, 25ºC / 77ºF)			
18.50Ah / 111A	(10min, 1.70V / cell, 25ºC / 77ºF)			
550A (5s)				
Approx 5.8m $\Omega$				
Discharge : -15 ~ 55°C (5 ~131°F)				
Charge : 0 ~ 40°C (32 ~ 104°F)				
Storage : -15 ~ 40°C (5 ~ 104°F)				
Initial Charging Current less than 11A				
Voltage: 2.30VPC~ 2.35VPC at 25°C (77°F)				
Temp. Coefficient: -30mV/°C				
Initial Charging Current less than 11A				
Voltage: 2.25VPC ~ 2.30VPC at 25ºC (77ºF)				
Temp. Coefficient: -20mV/ºC				
40°C (104°F)	103%			
25°C (77°F)	100%			
0°C (32°F)	86%			
Fully charged Kaise Deep Cycle Series batteries may be				
stored for up to 6 months at 25°C (77°F) and then a				
freshening charge is required. For higher temperatures the				
time interval will be sho				
	Length (mm / inch) Width (mm / inch) Height (mm / inch) Total Height (mm / inch) Total Height (mm / inch) (Kg / lbs) 10 years M6 ABS 52.8Ah / 5.28A 32.8Ah / 32.8A 18.50Ah / 111A 550A (5s) Approx 5.8m $\Omega$ Discharge : -15 ~ 55°C Charge : 0 ~ 40°C (32 ~ Storage : -15 ~ 40°C (5 25 ± 3°C (77 ± 5°F) Initial Charging Current Voltage: 2.30VPC ~ 2.30V Temp. Coefficient: -30mV Initial Charging Current Voltage: 2.25VPC ~ 2.30V Temp. Coefficient: -20mV 40°C (104°F) 25°C (77°F) 0°C (32°F) Fully charged Kaise Dee stored for up to 6 month freshening charge is req			

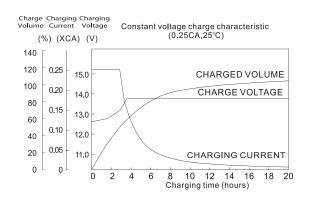
#### Discharge Constant Current (Amperes) at 77°F (25°C)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	96.0	77.2	50.6	31.2	13.2	9.01	5.17	2.75
1.75V	102	83.3	52.5	32.0	13.5	9.18	5.24	2.74
1.70V	111	88.0	54.2	32.8	13.8	9.35	5.28	2.78
1.60V	124	96.5	57.8	34.6	14.5	9.77	5.35	2.81

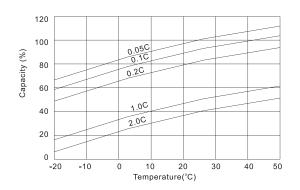
# KBC12550 12V 55Ah



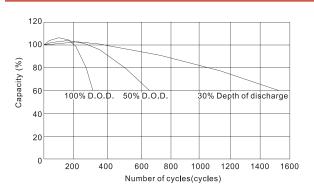
#### Charging Characteristics (standby use)



#### **Temperature Effects in Relation to Battery Capacity**

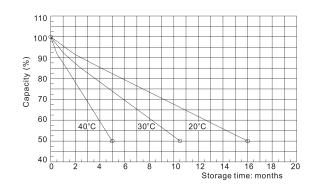


# Cycle Life in Relation to Depth of Discharge



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.

#### **Self Discharge Characteristics**



# Temperature Effects on Float Life

