

KBF121550 12V 155Ah



The frontal Kaise batteries are used mostly for the telecommunications industry, guaranteeing that in case of an electric power cut, the Kaise batteries immediately provide the necessary energy supply, as a backup energy system for the simple or most complex energy systems.

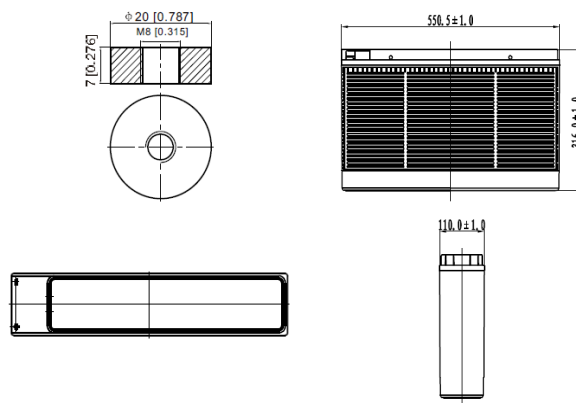
Performance Characteristics

Nominal Voltage	12V		
Dimensions	Length (mm / inch)	551 / 21.7	
	Width (mm / inch)	110 / 4.33	
	Height (mm / inch)	316 / 12.4	
	Total Height (mm / inch)	316 / 12.4	
Approx. Weight	(Kg / lbs)	51.5 / 113.6	
Design Life	10 - 12 years		
Terminal	M8		
Container Material	ABS		
Rated Capacity	156 Ah / 15.6 A	(10hr, 1.75V / cell, 25°C / 77°F)	
	142 Ah / 28.4 A	(5hr, 1.75V / cell, 25°C / 77°F)	
	108 Ah / 108 A	(1hr, 1.65V / cell, 25°C / 77°F)	
	48.3 Ah / 290 A	(10min, 1.65V / cell, 25°C / 77°F)	
	Max. Discharge Current	1050A (5s)	
Internal Resistance	Approx 4.0mΩ		
Operating Temp. Range	Discharge : -20 ~ 60°C (-4 ~ 140°F)		
	Charge : -10 ~ 60°C (14 ~ 140°F)		
	Storage : -20 ~ 60°C (-4 ~ 140°F)		
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)		
Cycle Use	Initial Charging Current less than 31A		
	Voltage: 2.30V ~ 2.35V at 25°C (77°F)		
	Temp. Coefficient: -30mV/°C		
Standby Use	Initial Charging Current less than 31A		
	Voltage: 2.25V ~ 2.30V at 25°C (77°F)		
	Temp. Coefficient: -20mV/°C		
Capacity affected by Temperature	40°C (104°F)	103%	
	25°C (77°F)	100%	
	0°C (32°F)	86%	
Self Discharge	Fully charged Kaise Frontal 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 shorter.		

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

Volts/cell	10min	15min	30min	45min	1h	3h	5h	10h
1.80V	215	199	152	122	101	43.9	28.2	15.5
1.75V	240	218	160	127	104	44.9	28.4	15.6
1.70V	265	237	166	131	106	45.8	28.6	15.7
1.67V	290	256	174	135	108	46.7	28.8	15.8
1.60V	315	274	181	139	110	47.6	29.0	15.9

Dimensions and Terminal (Unit: mm (inches))



Applications

Renewable Energy
Alarm systems
Electric Test Equipment
Emergency lighting systems
Marine equipment
Telecommunications systems

Certifications

ISO 9001:2008 ISO 14001:2008



Discharge Current vs. Discharge Voltage

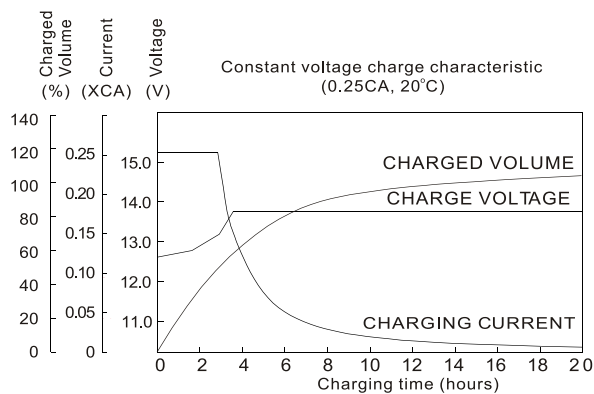
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

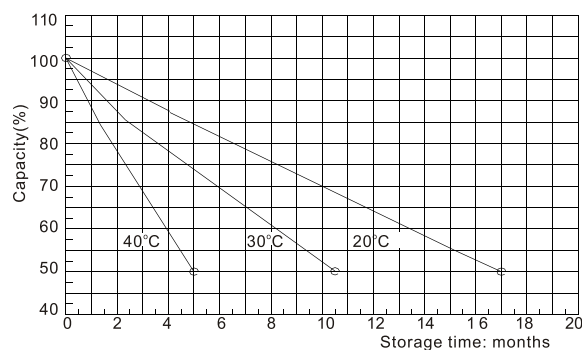
Volts/cell	10min	15min	30min	45min	1h	3h	5h
1.80V	428	387	278	219	185	85.3	55.7
1.75V	448	400	285	223	188	86.3	56.3
1.70V	468	413	291	227	190	87.3	56.9
1.67V	487	426	297	231	192	88.2	57.5
1.60V	506	439	303	234	194	89.1	58.0

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

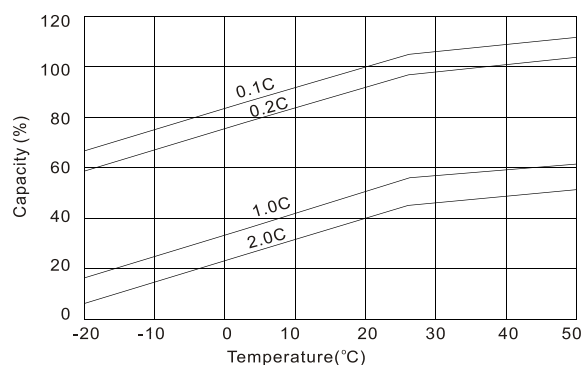
Charging Characteristic



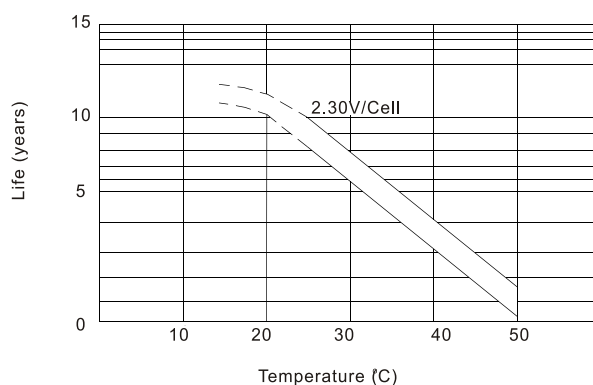
Self Discharge Characteristics



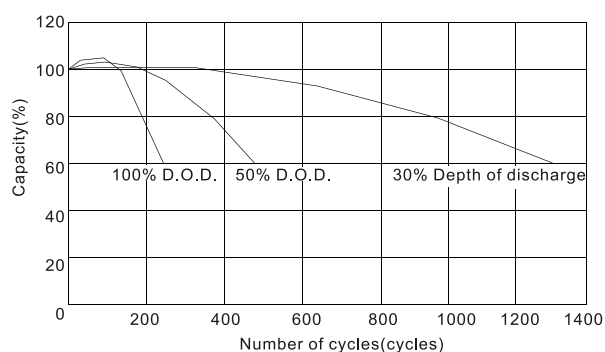
Temperature Effects in Relation to Battery Capacity



Temperature Effects on Float Life



Cycle Service Life



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

