

KBAS12800 12V 80Ah



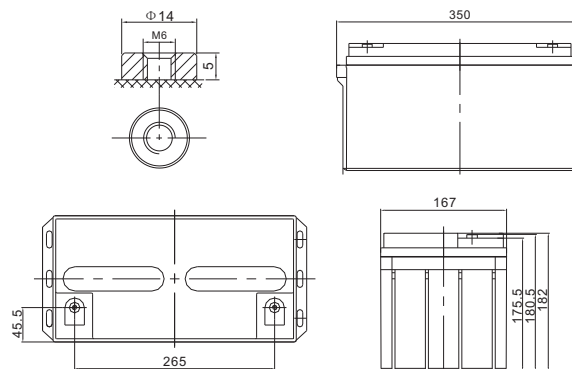
The Kaise Solar Range is mainly used in renewable energy applications, due to its optimal cyclic use performance. It is specially designed for frequent cyclic charge and discharging, providing superior high integrity and reliability. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. Kaise Solar Range offer approx. 30% more cyclic life than the Standard Series.



Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	350±2 / 13.8
	Width (mm / inch)	167±2 / 6.57
	Height (mm / inch)	182±2 / 7.17
	Total Height (mm / inch)	182±2 / 7.17
Approx. Weight	(Kg / lbs)	19.5 / 42.9
Design Life	12 years (floating charge)	
Terminal	M6	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	
Rated Capacity	75.0 Ah / 0.750 A	(100hr, 1.65V/c, 25°C / 77°F)
	64.38 Ah / 6.438 A	(10hr, 1.65V/c, 25°C / 77°F)
	38.13 Ah / 38.13 A	(1hr, 1.65V/c, 25°C / 77°F)
Max. Discharge Current	650A (5s)	
Internal Resistance	Approx 7.0mΩ	
Operating Temp. Range	Discharge : -20 ~ 60°C	
	Charge : 0 ~ 50°C	
	Storage : -20 ~ 60°C	
Nominal Operating Temp. Range	25°C ± 5°C	
Cycle Use	Voltage: 14.6V ~ 14.8V at 25°C (77°F)	
	Temp. Compensation: -4mV/°C / Cell	
Float Voltage Use	Voltage: 13.6V ~ 13.8V at 25°C (77°F)	
	Temp. Compensation: -3mV/°C / Cell	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Fully charged Kaise Solar 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.	

Dimensions and Terminal (Unit: mm (inches))



Applications

Renewable Energy
Pump Systems
Traffic lights
Street lightening
Marine equipment
Caravans & Boats
Weekend cottage camping
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 Current Discharge (Amperes) at 25°C (77°F)

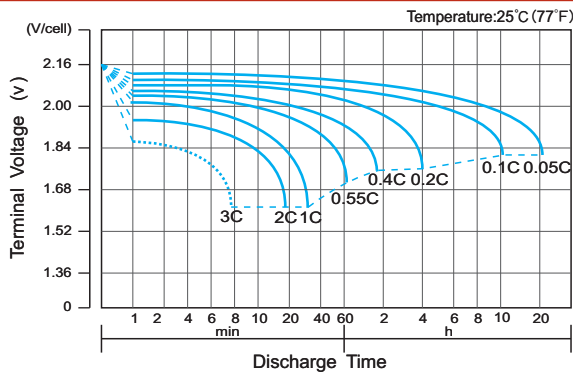
Volts/cell	1h	3h	4h	8h	10h	24h	100h
1.80V	34.16	16.25	12.83	7.405	6.190	2.721	0.721
1.75V	35.75	16.56	13.14	7.529	6.252	2.748	0.728
1.70V	36.91	17.00	13.51	7.652	6.314	2.776	0.736
1.65V	38.13	17.75	13.94	7.776	6.438	2.830	0.750
1.60V	39.48	18.31	14.37	7.837	6.500	2.857	0.757

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

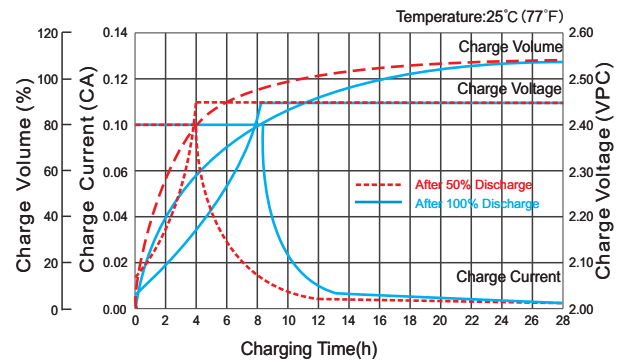
Volts/cell	1h	3h	4h	8h	10h	24h	100h
1.80V	65.94	31.63	25.05	14.48	12.13	5.334	1.414
1.75V	68.75	31.80	25.54	14.72	12.26	5.388	1.428
1.70V	70.71	32.61	26.15	14.97	12.38	5.442	1.442
1.65V	72.84	33.91	27.01	15.15	12.62	5.550	1.471
1.60V	74.11	34.77	27.69	15.27	12.75	5.604	1.485

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

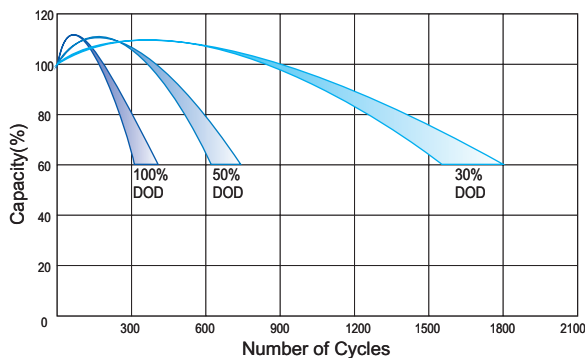
Discharge Characteristics Curve



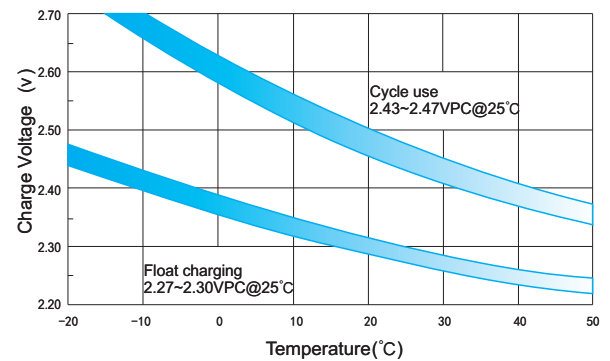
Charge Characteristic Curve for Cycle Use (IU)



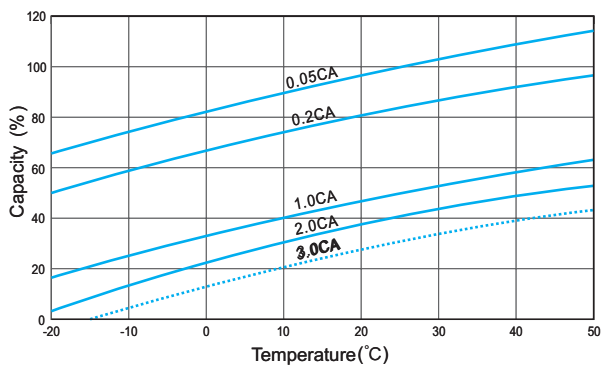
Cycle Life in Relation to Depth of Discharge



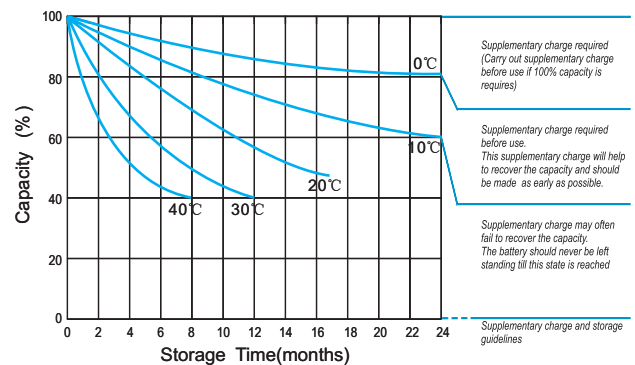
Relation between Charging Voltage and Temperature



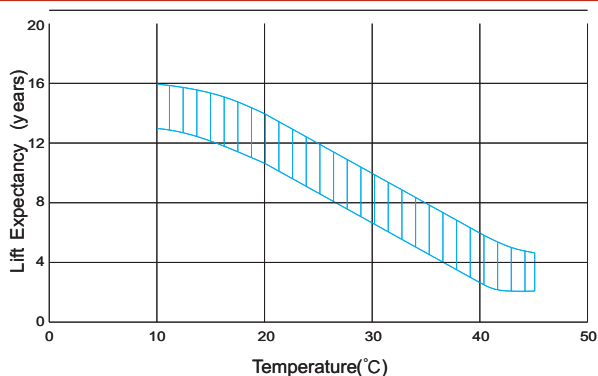
Temperature Effects on Capacity



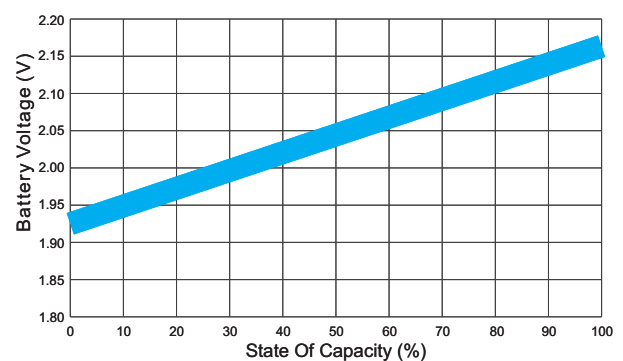
Storage Characteristics



Effect of Temperature on Long Term Life



Relation between OCV and State of Charge (20°C)



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

