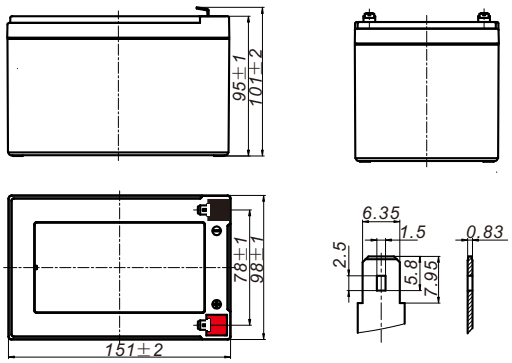
KBL12120WP 12V 12Ah

The KAISE Wind Power series has been designed for windmill applications that require a special use during the life of battery.

Dimensions and Terminal (units: mm)



Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	151±2 / 5.95
	Width (mm / inch)	98±1 / 3.86
	Height (mm / inch)	95±1 / 3.74
	Total Height (mm / inch)	101±2 / 3.98
Approx. Weight	(Kg / lbs)	3.85 /8.49
Terminal	F2	
Container Material	ABS	
Rated Capacity	12.00Ah / 0.600A	(20hr, 1.75V / cell, 25ºC / 77ºF)
	11.60Ah / 1.16A	(10hr, 1.75V / cell, 25ºC / 77ºF)
	10.65Ah / 2.13A	(5hr, 1.75V / cell, 25ºC / 77ºF)
	7.89Ah / 7.89A	(1hr, 1.60V / cell, 25ºC / 77ºF)
Max. Discharge Current	180A (5s)	
Internal Resistance	Approx 22.0 mΩ	
Operating Temp.Range	Discharge : -15 ~ 50ºC (5 ~ 122ºF)	
	Charge : -20 ~ 40ºC (-4 ~ 104ºF)	
	Storage : -15 ~ 40ºC (5 ~ 104ºF)	
Nominal Operating Temp. Range	25 ± 3ºC (77 ± 5ºF)	
Cycle Use	Initial Charging Current less than 3.6A Voltage: 14.4V ~ 15.0V at 25ºC (77ºF) Temp. Coefficient: -30mV/ºC	
Standby Use	Initial Charging Current less than 3.6A Voltage: 13.5V ~ 13.8V at 25ºC (77ºF) Temp. Coefficient: -20mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	The batteries may be stored for up 6 months at 25ºC/77ºF and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Applications

- Windmill applications (UPS)

Special Design Advantages

- Special thick lead plates.

Design Float Life Use

- 10 ~12 years at 20ºC (approx.)

Certifications

ISO 9001
ISO 14001

CE UL IEC

Discharge Current vs. Discharge Voltage

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

Constant Current Discharge (Amperes) at 25ºC (77ºF)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	25.1	19.7	12.4	7.36	3.08	2.11	1.14	0.595
1.75V	26.3	20.4	12.6	7.49	3.13	2.13	1.16	0.600
1.70V	27.6	21.1	12.9	7.62	3.17	2.16	1.17	0.607
1.65V	28.3	21.6	13.1	7.70	3.20	2.18	1.18	0.610
1.60V	30.0	22.6	13.5	7.89	3.27	2.22	1.20	0.619

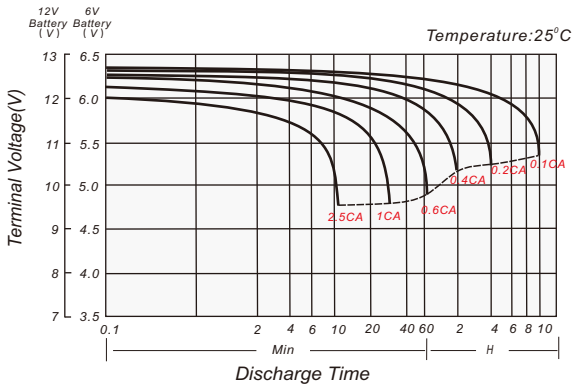
Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	47.7	37.6	23.8	14.3	6.05	4.15	2.27	1.19
1.75V	49.8	38.8	24.2	14.5	6.12	4.20	2.29	1.20
1.70V	51.8	40.0	24.7	14.7	6.20	4.25	2.32	1.21
1.65V	53.0	40.7	25.0	14.8	6.25	4.28	2.33	1.22
1.60V	55.8	42.2	25.6	15.1	6.35	4.34	2.37	1.24

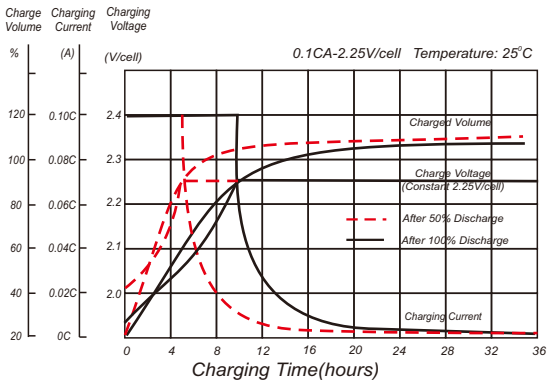
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBL12120WP 12V 12Ah

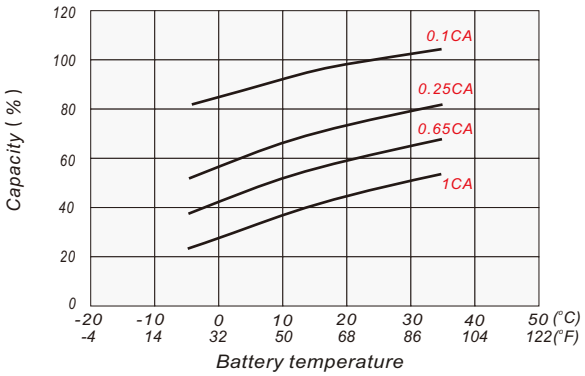
Discharge Characteristics



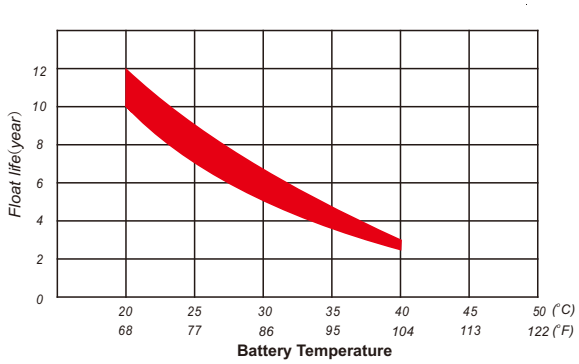
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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

2020/V/L

Contacto
customer.energy@tempelgroup.com
www.tempelgroup.com

Tempel Group en el mundo
HOUSTON · BARCELONA · MADRID · VALENCIA · BILBAO · SEVILLA · LISBOA · PORTO · ROMA · BUENOS AIRES · LIMA
SANTIAGO DE CHILE · BOGOTÁ · SÃO PAULO · CIUDAD DE MÉXICO · MONTERREY · CIUDAD DE PANAMÁ · MONTEVIDEO · QUITO