PRODUCT SPECIFICATION

(Customer Code): JCLIFE12105BT / 100049756

(Product Name): Japcell JCLIFE12105BT Battery

(Model Number): 12.8V105AH-4S1P-225*260*175mm

(Rev. No): A/0

Prepared by	Approved by
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Ver. No.	Date	Correcting Content	Change Reason	Reviser
A/0	2023.08.5	First Edition	/	/


JAPCELL
LiFePO4 12.8V 105AH battery
Max 200A discharge rate

	(Test item)		(Criteria)
1	Voltage	Charge Voltage	14.6V
2	Current	Normal current consumption of PCM	Max 50uA
		Max continuous discharging current	200A
3	Over charge Protection (single cell)	Over charge detection voltage (Decide by IC Parameter)	3.75±0. 5V
		Over charge detection delay time	500ms~1500ms
		Over charge release voltage	3.65±0.05V
4	Over discharge protection (single cell	Over discharge detection voltage (Decide by IC Parameter)	2.1±0.1V
		Over discharge detection delay time	50ms～150mS
		Over discharge release voltage	2.30±0.1V
5	Over discharge current	Over current	210A±20
		delay time	8S
6	Short protection	Detection condition	(Exterior short circuit)
		Detection delay time	150～500uS
		Release condition	(Automatic Recovery)
7	Circuitry resistance	Protection circuitry	RDS≤25mΩ
8	Balance	Balance Voltage(Start)	3.55V
		Balance Current	>30mA

5.2 Minimum Capacity	(The capacity means the discharge capacity of the battery, which is measured with discharge current 0.2C with 8.4V cut-off within 0.5 hour after the Standard Charge.)	(Minimum Capacity) ≥100Ah
5.3 Cycle Life	At the end of standard charging, after 30 minutes of shelving, constant current of 0.2C in the (25±3℃) environment, the next cycle is carried out, after 2000 cycles, use it for 1 day and test the capacity according to the above 5.2.	(Minimum Capacity)
5.4 Internal Impedance	(Impedance shall be measured by a sinusoidal alternating current method. Internal resistance measured at 1KHz after 50% charge。)	≤50mΩ
5.5 Voltage	(As of shipment)	≥13V

5.6 Rated capacity	(Charge Current)	(Discharge Current)
	1C	200 A

5.7 Storage Characteristic	(The battery is charged and discharged using 0.2C at 25±2℃. The discharge capacity is C1. The battery is stored for 28 days in 25 ±5℃ after fully charged and then is discharged using 0.2C at 25±2℃. The capacity is defined as C2.)	C2/C1≥95% (Capacity Retention C2/C1≥95%)
	(After the test as ①, the battery is cycled for 3 times using 0.2C at 25± 2℃, The maximum discharge capacity is C3.)	C3/C1≥95% (Capacity recoverable ratio C3/C1≥95%)

5.8 Discharge Character	(Discharge current)	(Discharge Degree)			
	1-3C	-20±2℃	0±2℃	25±2℃	35±2℃
		≥50%	≥75%	100%	≥95%

7. （Shipping）30%，，。

The capacity of delivery Battery is approximately at 30% of charging. During transportation, keep the battery from acutely vibration, impacting, solarization, drenching.

8. （Storage）

Storage for a long time： If battery is preserved for a long time (more than 3 months); the battery should be preserved at the dry and low temperature.

，If battery is
preserved for a long time, the battery should be recharged. more than 3 months must be recharged again.， and more than 6 months must be recharged and discharge again; Otherwise it will affect the battery performance.

9. （Caution）

Please read the manual carefully before using it in order to ensure proper use of the battery.

4S2P.

Battery packs support up to 4 serial connected and 2 parallel connected.

When charging the battery, use dedicated chargers and follow the specified conditions.

。 Do not heat or throw battery into a fire、water.

。Do not put battery in

your pockets or a bag together with metal objects such as necklaces, Hairpins, coins, or screws. Do not store

battery with such objects.

Do not short circuit the (+) and (-) terminals with metals.

Do not place battery in a device with the (+) and (-) in the wrong way around.

Do not pierce battery with a sharp object such as a needle.

Do not hit with a hammer, step on or throw or drop to cause strong shock.

Do not use a battery with serious scar or deformation.

Do not use battery with dry batteries and other primary batteries, or battery of a different package, type, or brand.

Stop using the battery if

abnormal heat, odor, discoloration, deformation or abnormal condition is detected.

If liquid leaking from the battery gets into your eyes, do not rub your eyes. Wash them well with clean water and go to see a doctor immediately.

*把电池放到小孩够不到的地方以免吞服。

Store battery out of reach of children so that they are not accidentally swallowed.

*当长期不用时，要将电池从设备中取出并放在低温低湿的环境中保存。

When not using battery for an extended period, remove it from the equipment and store in a place with low humidity and low temperature.

*电池应在远离静电的场所进行充电、使用和储存。

While the battery pack is charged, used and stored, keep it away from objects or materials with static electric charges.

*电池在使用时的温度不能超出下面的要求：

The battery can be used within the following temperature ranges. Do not exceed these ranges.

*充电温度范围：0℃ to 45℃ 。Charge temperature range: 0℃ to 60℃

*放电温度范围：-20℃ to 60℃ 。Discharge temperature range: -20℃ to 60℃ .

10. 图 纸 （Drawing unit:mm）

L*W*H=260*175*225mm

