Non-Standard System Possibility

General

1. We always encourage standard system selling, non-standard system will incur extra engineering investment and extra support resource and less reliability. Thus we may expect the non-standard system has around 50% higher price than corresponding standard system.

2. For non-standard current range, we may follow below guidelines:

(1) Super high current range (>300A or 400A) can be accomplished by software paralleling multiple standard IV channels. We don't do Master/Slave style hardware parallel anymore unless otherwise approved by Dr. John.

(2) Uncommon current range(such as 3A, 19A…) are doable, but with much higher price(50% more). We usually recommend using the closest standard range(such as 5A, 20A) to replace it.

(3) Super low current range(such as 100uA) may be considered, but again with higher price.

(4) Adding additional current range is usually impossible.

3. For non-standard voltage range, we will list detail tables in next chapters for each board type for its possibility and limitation. Below are some general guidelines:

(1) Standard LBTS21 series are always 0V~5V or -5V~5V, all of them have booster power supply(able to discharge to 0V or -5V). We may be able to remove the booster power supply to further reduce the price by adjusting the system to 2~5V. Though it's not really recommended.

(2) Standard LBTS22 series are always 2V~xxxV, all of them does not have booster power supply. We believe most battery pack does not need to be discharge to 0V. We are able to add booster to them at expense.

(3) Standard RBT4 series are always 2V(8V)~xxxV, all of them does not have booster power supply(except 6V system can be either 2~6V or 0~6V). We are able to add booster to all of them at expense.

4. After confirming the non-standard system is doable, please still consult engineers for detailed system spec, power requirement, price, etc…

LBTS21 non-standard system voltage possibility

		Customized Range		
Board Type	Max Current	-5V~5V	0~10V	-10V~10V
LBTS21044	300A	Max Current = 150A	Max Current = 150A	Max Current = 75A
LBTS21084	150A	Max Current = 75A	Max Current = 75A	Max Current = 37A
LBTS21124	100A	Max Current = 50A	Max Current = 50A	Max Current = 25A
LBTS21244	50A	Max Current = 25A	Max Current = 25A	Max Current = 12A
LBTS21324	20A	Max Current = 10A	Max Current = 10A	No
LBTS21324	10A	Yes	Yes	No
LBTS21324	5A	Standard	Yes	No
LBTS21324	1A	Standard	Yes	No
LBTS21642	10A	Max Current = 5A	Max Current = 5A	No
LBTS21642	1A	Standard	Yes	No

Green: Able to do without modifying IV module hardware, need to use different Power supply.

Light Green: Able to do, need to modify IV module hardware.

Blue: Able to do, need to degrade specification.

Red: Not able to do.

RBT4 non-standard system voltage possibility

Refer to below table for all Standard, Non-standard but doable, Not Applicable voltage range options for RBT4 series.

		Max Voltage					
		6V	**10V**	**20V**	**60V**	**100V**	**200V**
Min Voltage	**2V**	Standard	Standard	Standard	N/A	N/A	N/A
	8V	N/A	N/A	N/A	Standard	Standard	Standard
	0V	Standard	Non-Std	Non-Std	Non-Std	Non-Std	Non-Std
	-6V	Non-Std	N/A	N/A	N/A	N/A	N/A
	-10V	N/A	Non-Std	N/A	N/A	N/A	N/A
	-20V	N/A	N/A	Non-Std	N/A	N/A	N/A
	-60V	N/A	N/A	N/A	N/A	N/A	N/A
	-100V	N/A	N/A	N/A	N/A	N/A	N/A
	-200V	N/A	N/A	N/A	N/A	N/A	N/A

LBTS22 non-standard system voltage possibility

LBTS22 series system will be available in 2024 Q3~Q4. They are a replacement of our existing LBT22 series. Their voltage options are below:

20V, 30V, 40V, 60V, 80V

Standard system does not have booster PS, but we can add booster PS as non-standard options.