



DOB solutions

DOB solution is very popular in India

Why

Government encourage to make in india, thus many favourable terms;

- Cheaper
- Easy to assemble to utilize and cheaper labour
- Longer life span if choose proper solution and quality components. they worry about if voltage unstable will lead to light off or short circuit, etc.

Is DOB solution reliable?

- The grid is very unstable, not always 230v, but fluctuate from 130v to 300v;
- Always surge and spike
- Can DOB sustain for 2 years?



How to choose right DOB products?





DOB solutions

we have the answers!

We have Three kinds of DOB solution are: 1) one channel IC; 2)one channel constant power IC ; 3)four channel IC

1

one channel solution is suitable for very stable of voltage countries ,such as China, the European countries, etc.

2

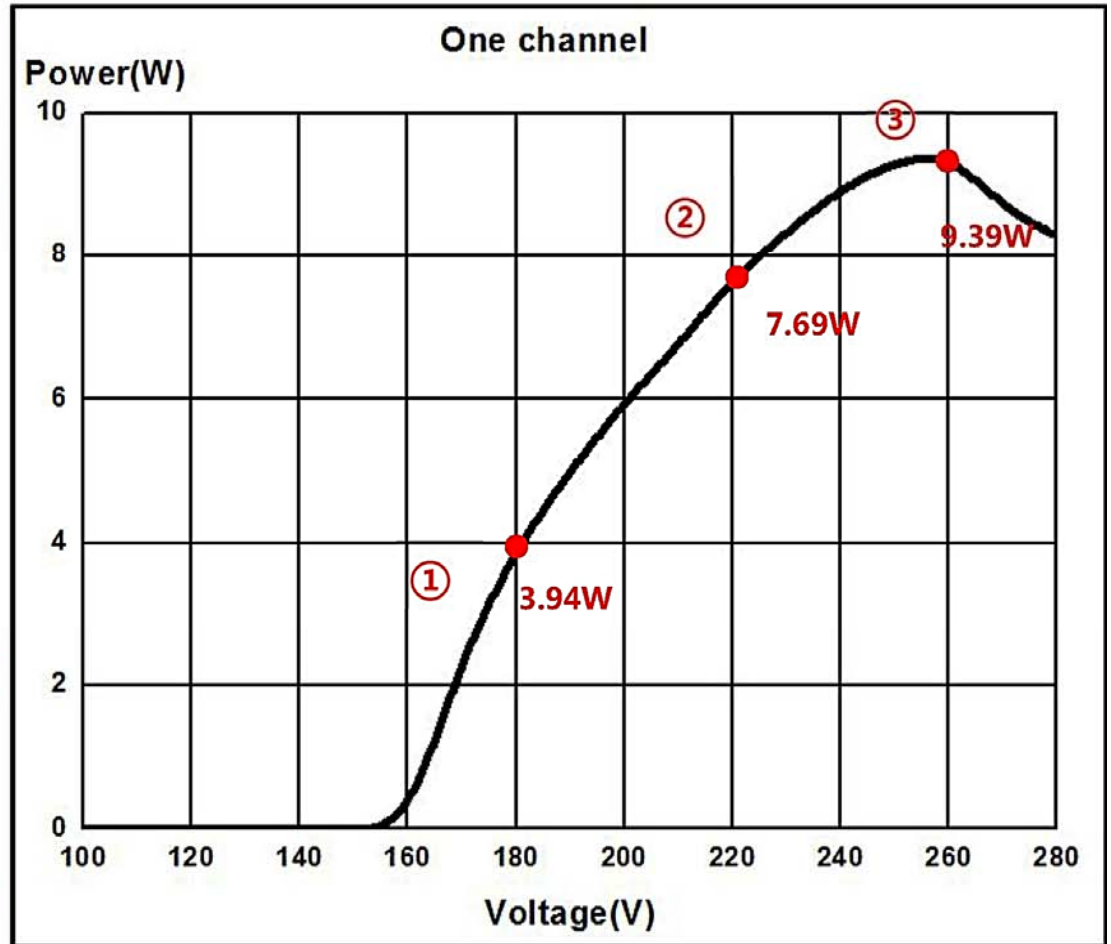
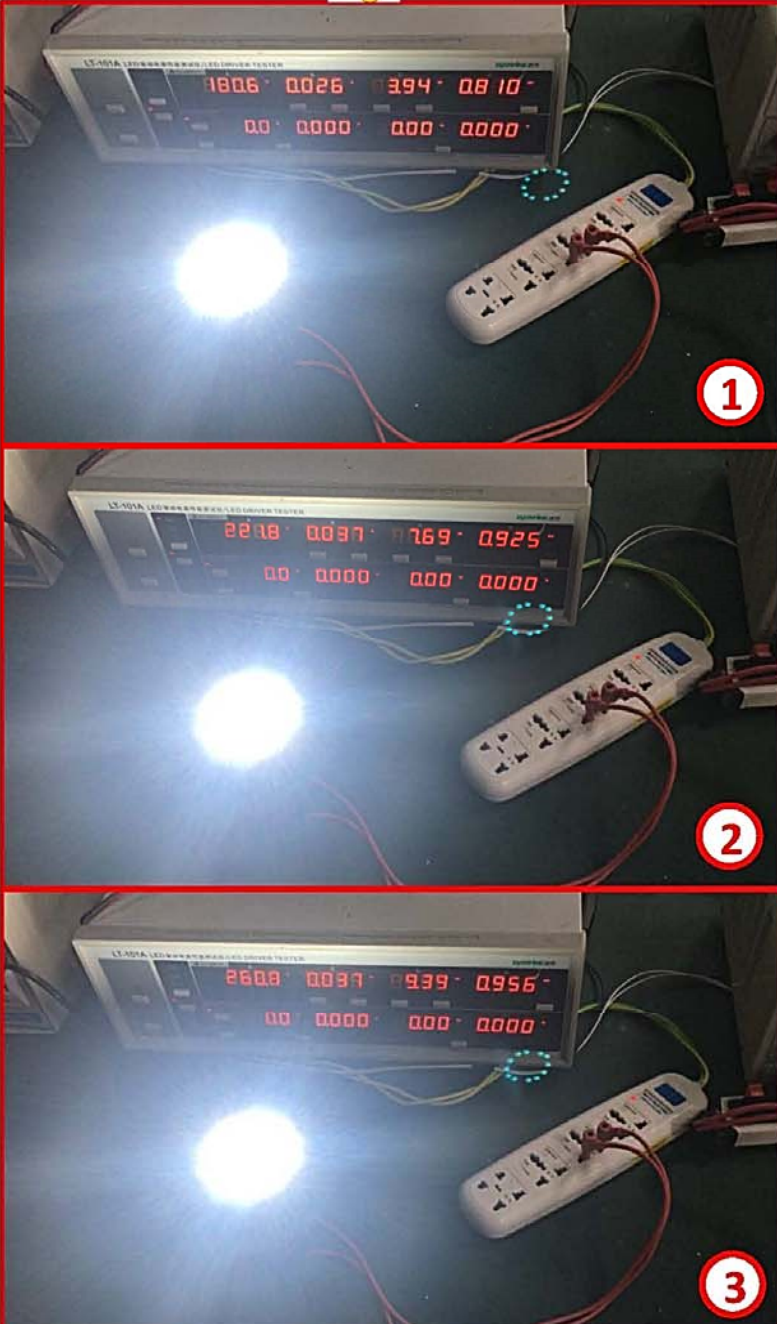
one channel constant power solution well controls over high voltage, but not lower voltage

3

Four channel solution controls both high and low voltage. Make linear solution as close to SMPS solution as possible

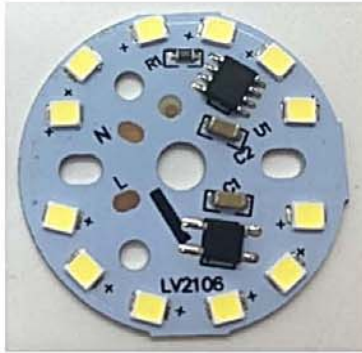


One channel 7W DOB Bulb Module



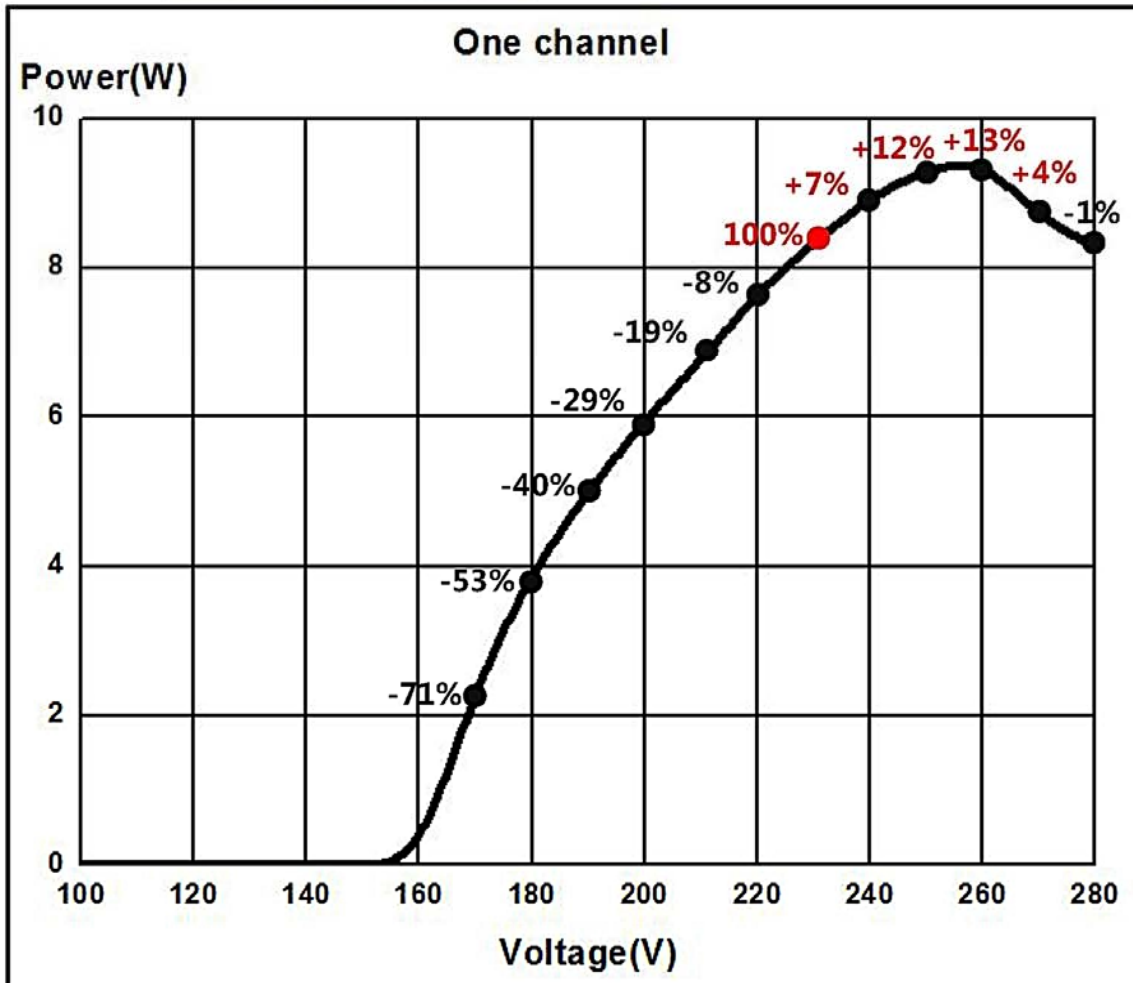
Advantage: Cheapest

Disadvantage: Fluctuate with the input voltage change



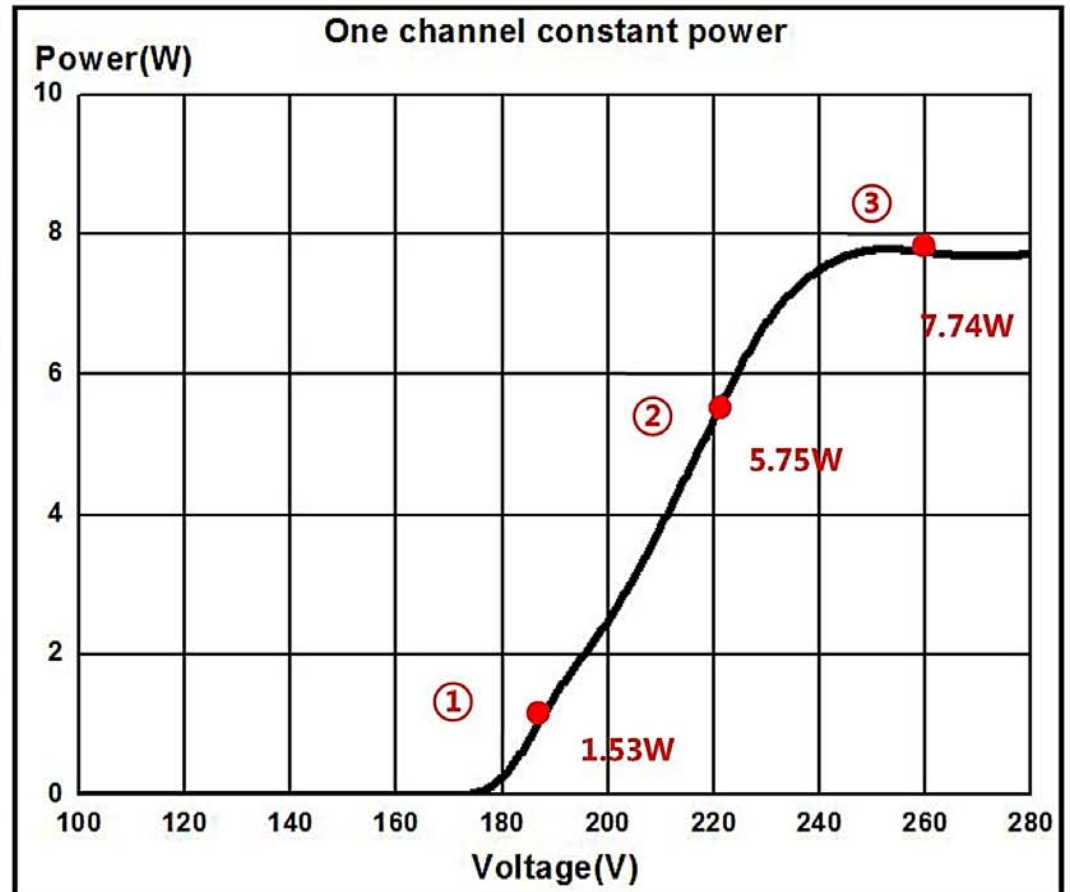
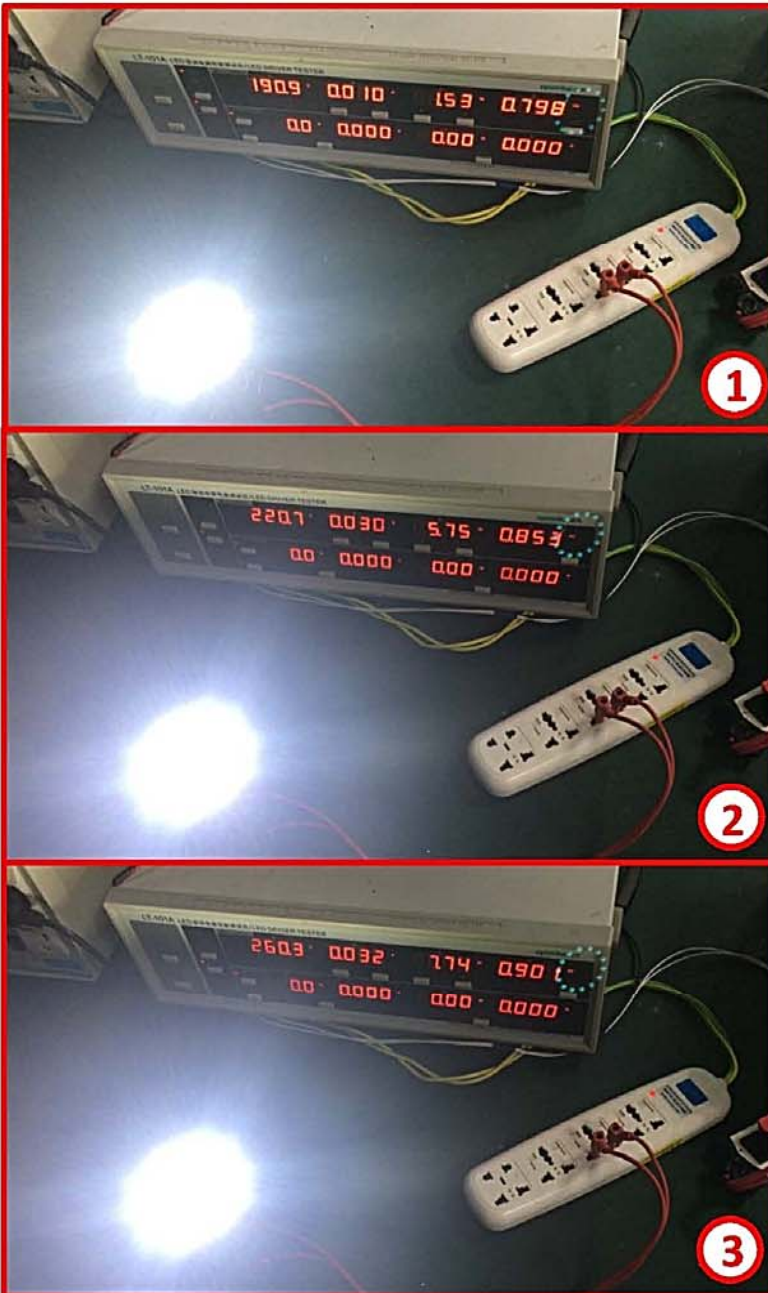
1

One channel 7W DOB Bulb Module



Voltage(V)	Power(W)	Percentage(%)
100	0	-100
110	0	-100
120	0	-100
130	0	-100
140	0	-100
150	0	-100
160	0	-100
170	2.41	-71
180	3.93	-53
190	5.01	-40
200	5.96	-29
210	6.75	-19
220	7.69	-8
230	8.34	100
240	8.95	+7
250	9.33	+12
260	9.46	+13
270	8.68	+4
280	8.29	-1

One channel constant power 7W DOB Bulb Module



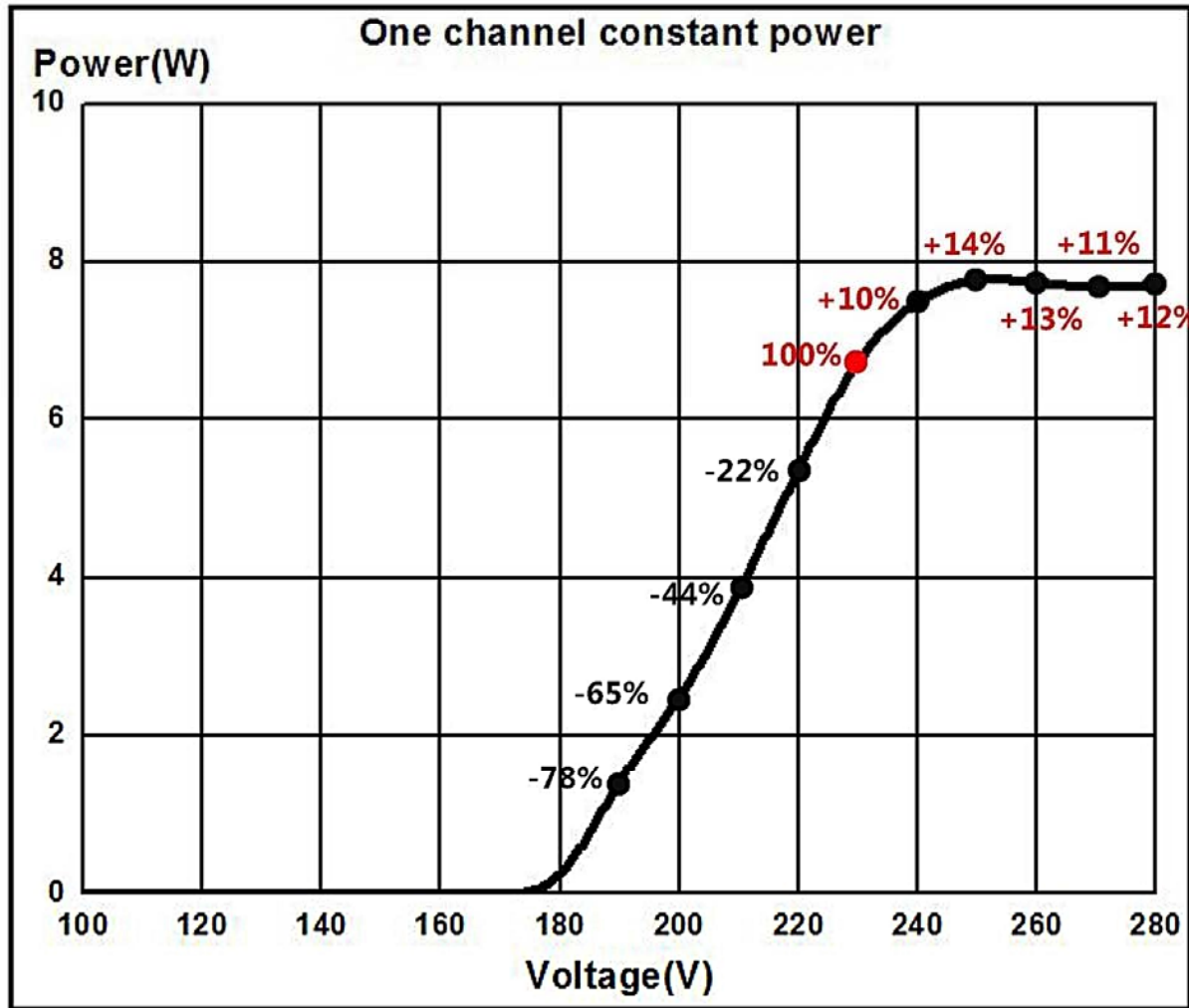
Advantage: Relatively Cheaper; well controls over high voltage,

Disadvantage: No control over lower input voltage



2

One channel constant power 7W DOB Bulb Module

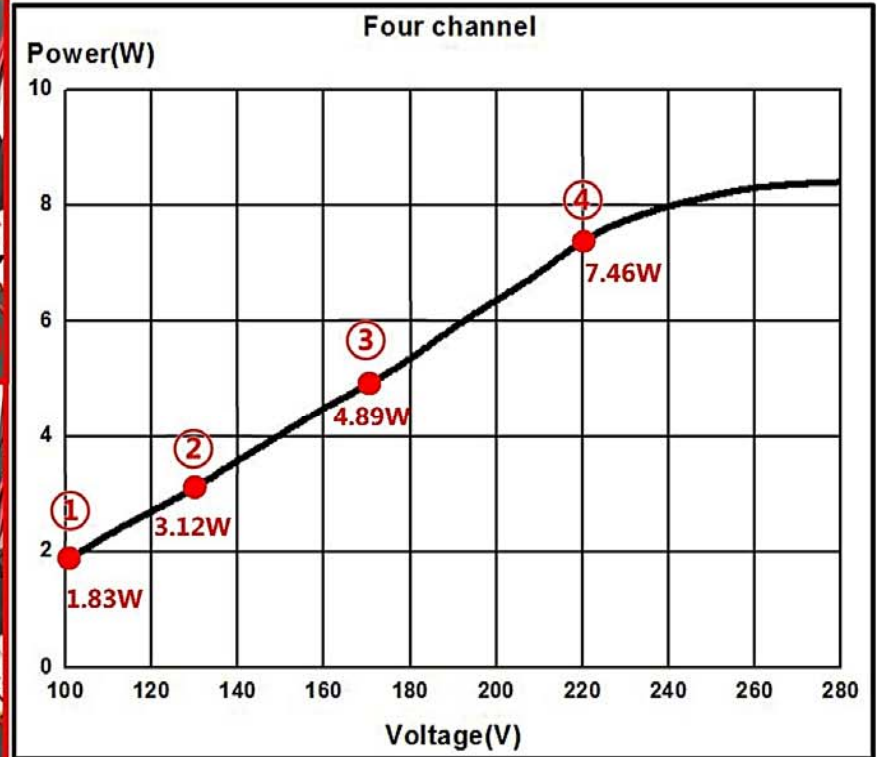
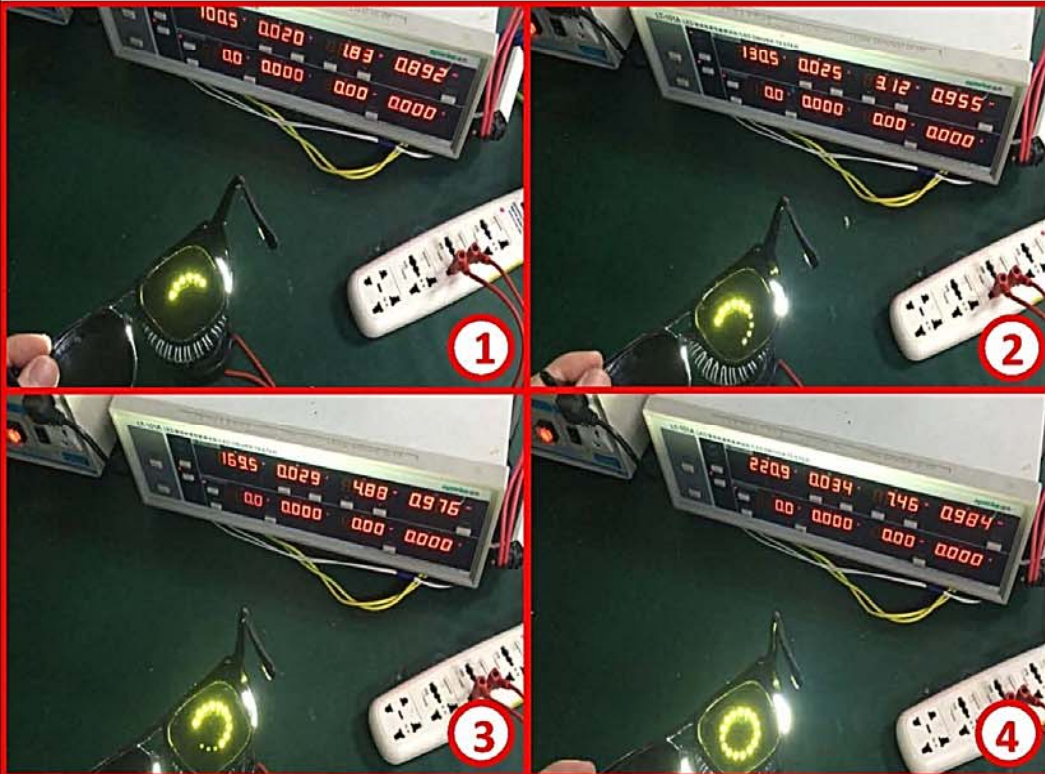


Voltage(V)	Power(W)	Percentage(%)
100	0	-100
110	0	-100
120	0	-100
130	0	-100
140	0	-100
150	0	-100
160	0	-100
170	0	-100
180	0	-100
190	1.53	-78
200	2.39	-65
210	3.82	-44
220	5.38	-22
230	6.88	100
240	7.57	+10
250	7.84	+14
260	7.74	+13
270	7.67	+11
280	7.72	+12



3

Four channel 7W DOB Bulb Module



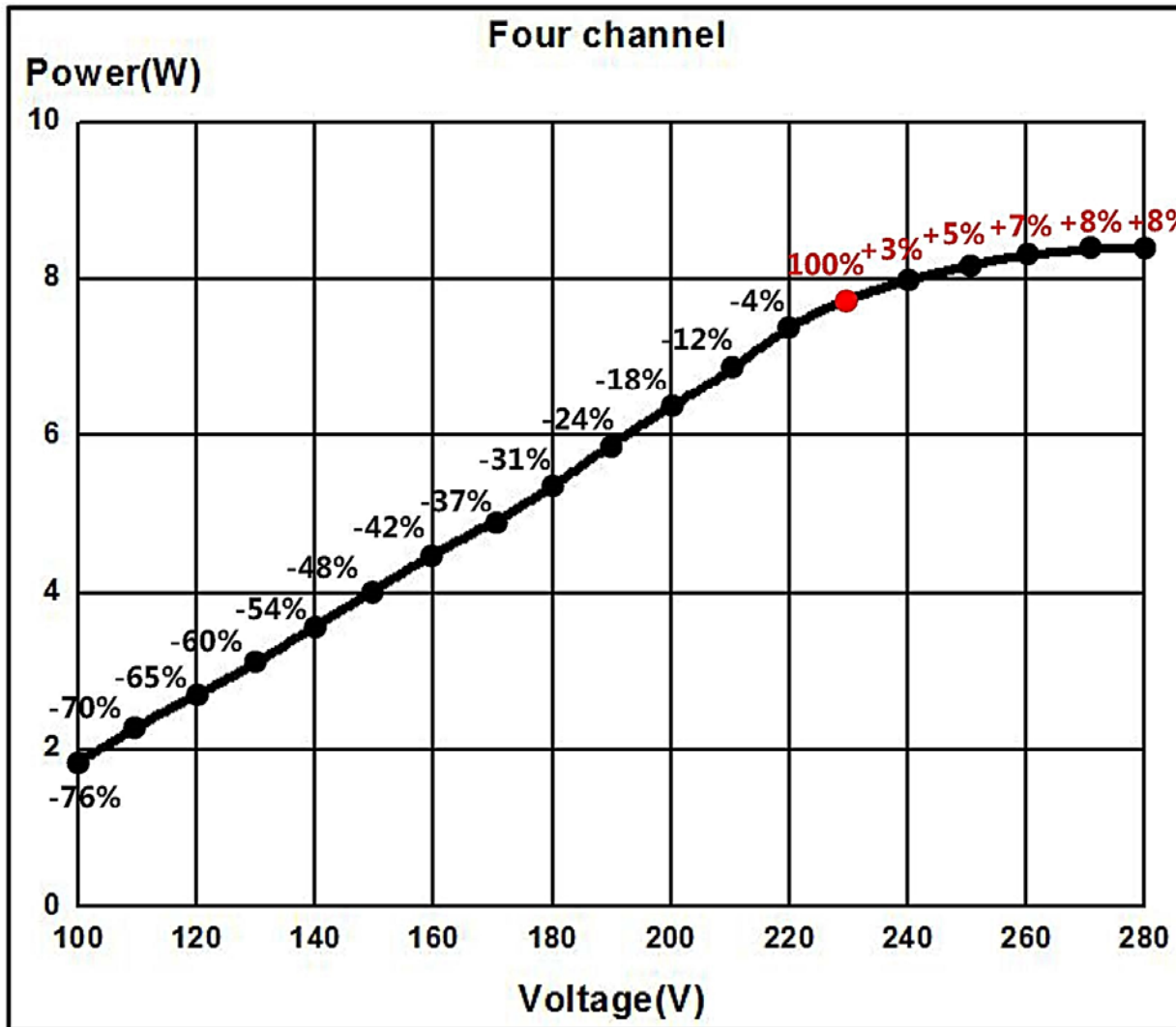
Advantage: well controls both high and low voltage; Start function from 100v

Disadvantage: Relatively expensive



3

Four channel 7W DOB Bulb Module

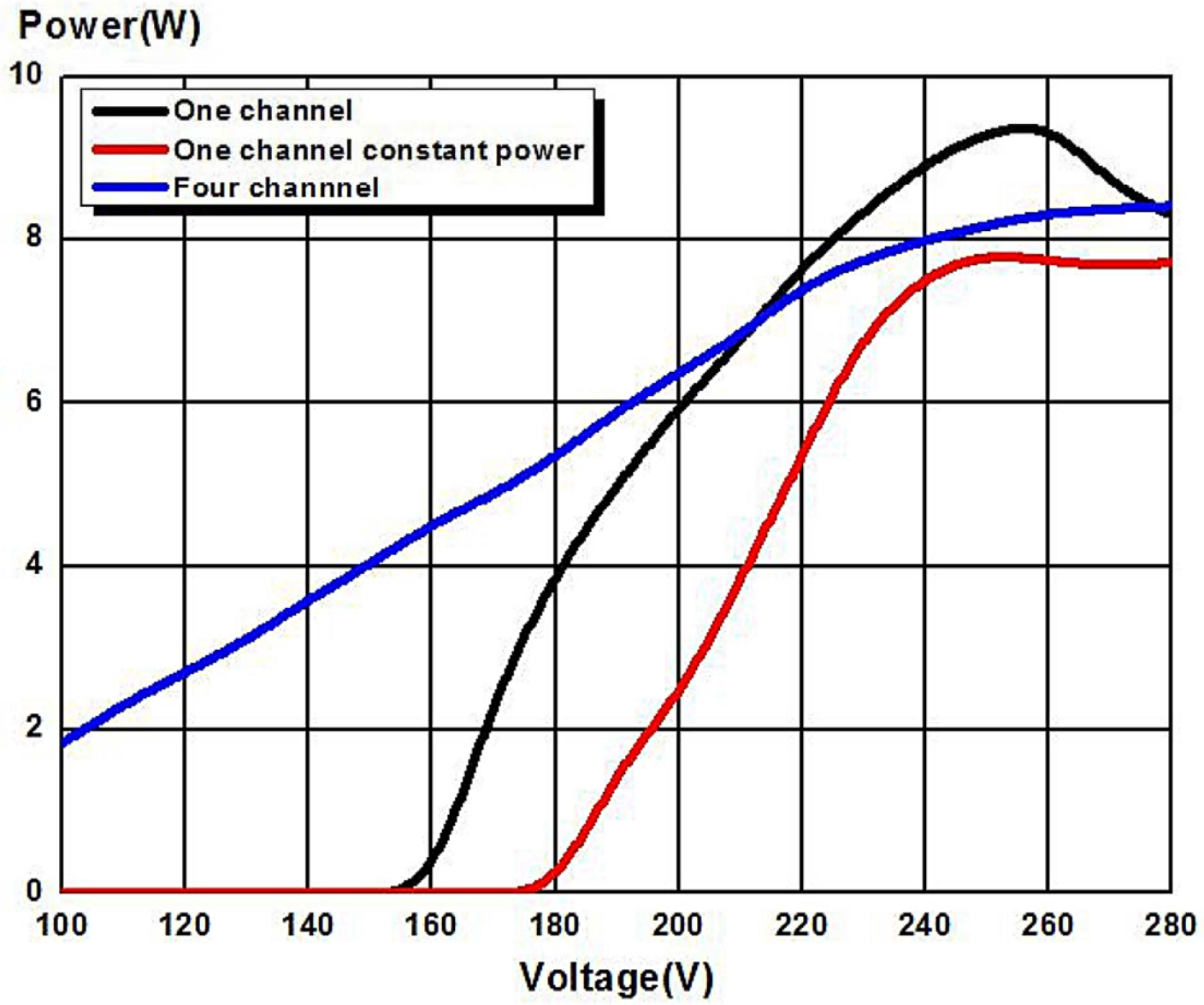


Voltage(V)	Power(W)	Percentage(%)
100	1.83	-76
110	2.32	-70
120	2.7	-65
130	3.1	-60
140	3.59	-54
150	4.03	-48
160	4.51	-42
170	4.89	-37
180	5.34	-31
190	5.91	-24
200	6.37	-18
210	6.83	-12
220	7.43	-4
230	7.76	100
240	8	+3
250	8.18	+5
260	8.32	+7
270	8.38	+8
280	8.41	+8





Comparison Chart





Conclusion

we only make quality dob Products

The reliable DOB solution in india need to:

1. **Use the right IC:** IC is the brain of DOB. **For Inida market, we suggest customers to choose 4 channel .** followed by 1 channel constant power IC. we don't recommend to use 1 channel IC as it fluctuates with the input power. But unfortunately, many suppliers offer it as it is cheap or lack of the knowledge from the suppliers.

2. **Use quality material and components** including LEDs, resistors, quality PCB etc.

The standard of PCB for bulbs as followings, it might need higher standard for higher power products.

- thickness of pcb » 1.0mm;
- Copper Thickness standard: 1OZ/35 μ M;
- Thermal conductivity » 1.0. IUnfortunately, many suppliers use much lower quality PCB and leds to lower the price.

3. **Have all necessary protections:**

- over-temperature protection,
- Surge protection 600v-1.5kv-2.5kv-4kv etc.,
- Better to use over current fuse





DOB Product Serials

Bulb
Serial

Down
light
Serial

Flood
light
Serial

Tailor-
made
Serials

