

Innovative slot frame design
Advanced module technologies(2)

04PART

PRODUCT HIGHLIGHTS

4.1 Customer value

While LCOE is a core indicator for evaluating PV power generation projects, it manifests the value of JA Solar to provide customers with solutions with minimum LCOE.

DeepBlue 3.0 modules can significantly reduce BOS costs of the system, especially the cost for structure (accounting for approximately 10% of the system costs). Compared with other types of modules, DeepBlue 3.0 modules have the optimal price advantages regardless of whether they are installed with fixed structure or trackers.

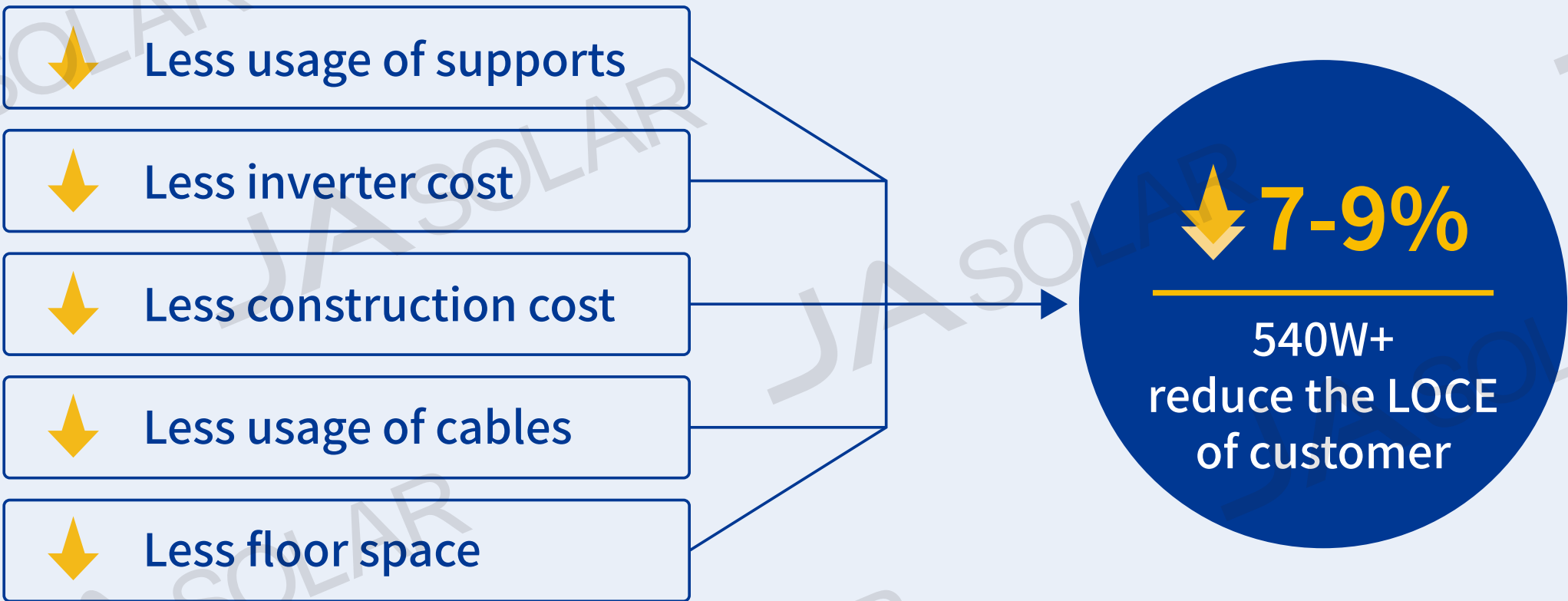
Schemes	210-5X10	210-6X10	182-6X12	182-6X13	166-6X12
Inverter	0.0000	0.0000	0.0000	0.0000	0.0000
Inverter installation	0.0002	0.0002	0.0002	0.0002	0.0002
Packaged substation	0.0068	0.0068	0.0068	0.0066	0.0068
Construction and installation of packaged substation	0.0006	0.0006	0.0006	0.0006	0.0006
Communication	0.0002	0.0002	0.0002	0.0002	0.0002
Cable	0.0077	0.0068	0.0074	0.0074	0.0102
Cable wiring	0.0025	0.0023	0.0025	0.0025	0.0035
Supports and pile foundations	0.0342	0.0306	0.0298	0.0288	0.0357
Subtotal (USD/W)	0.0521	0.0474	0.0474	0.0462	0.0571

Source: Third-party EPC company

Module model	210-5X10	210-6X10	182-6X12	182-6X13	166-6X12
Module size(mm)	2187*1102*30	2172*1303*40	2285*1134*35	2471*1134*35	2117*1052*35
Mainstream Power(W)	495	590	540	590	455
Open-circuit voltage (Voc)	51.5	41.3	49.6	53.3	49.75
Short-circuit current (Isc)	12.21	18.31	13.86	13.93	11.46
Maximum Power Point Voltage (Vmp)	42.6	34.2	41.64	44.8	41.52
Maximum Power Point Current (Imp)	11.63	17.25	12.97	13.17	10.96
Module efficiency (Eff)	20.7	20.8	20.8	21.1	20.4
Tacker Saving(%)	4%	8%	8%	14%	baseline

Source: Frontline tracker manufacturers

In addition, taking Dubai 360MW project as an example, compared with ordinary 410W modules, DeepBlue 3.0 modules (540W+) used in Dubai 360MW project reduced LCOE by 7%-9%.



4.2 Guarantee for production capacity

Judging from the development trend of global PV industry, especially the potential of application market, and the product strategies of JA Solar, it is expected that by the end of 2021, the production capacity of DeepBlue 3.0 series modules will reach about 30GW, and JA Solar will be able to continue to provide customers with quality, high efficient and low-cost PV products and solutions with minimum LCOE in the future.