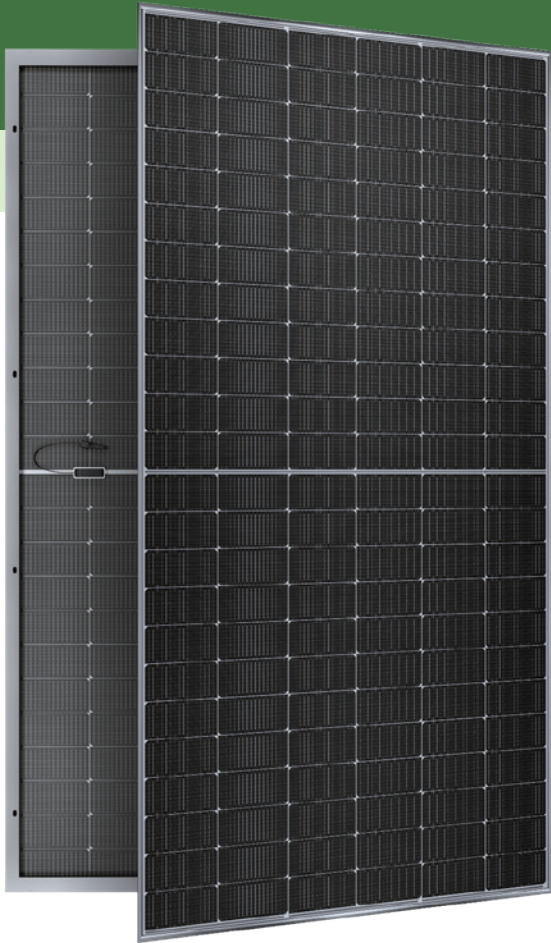


# CORE Series Bifacial Modules



Power Range | 580-600W

Maximum Efficiency | 23.23%

Power Output Tolerance | 0W ~ +5W

## FEATURES



### Outstanding Performance

- More than 23% industry leading efficiency
- More power per square foot for tight roofs
- Excellent temperature coefficient for hot climates
- Bifacial design captures reflected light with no extra cost



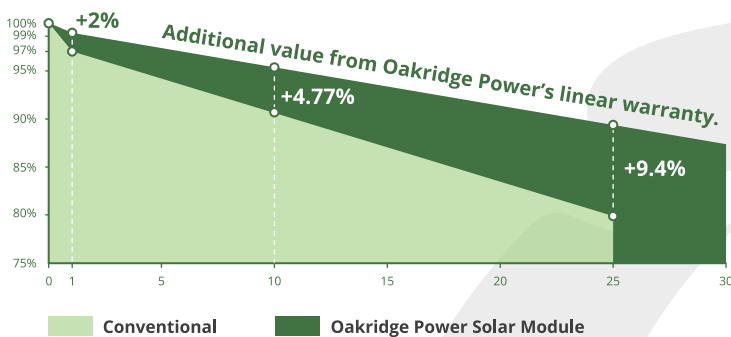
### Long-Term Reliability

- Advanced dual-glass structure resists moisture and PID
- First year degradation under 1% from day one
- 30 year power warranty plus 12 year product warranty



### Lifetime Investment Return

- Higher energy harvest reduces balance-of-system costs
- More power and lower degradation shorten your payback period
- Lower Levelized Cost of Energy over 30 years



Linear power output warranty



Guarantee on product material and workmanship

1st-year ≤ 1%

2nd~30th year ≤ 0.40% /year

Physical Characteristics		Mechanical Description	
Unit: mm (inch)		<b>No. of Half cells</b>	144pcs(6x24)
		<b>Dimension</b>	2278x1134x30mm (89.69 x 44.65 x 1.18in)
		<b>Weight</b>	31.2kg (68.78lbs)
		<b>Front Glass</b>	2.0mm, highly transparent tempered glass with anti-reflective coating
		<b>Rear Glass</b>	2.0mm, tempered glass
		<b>Frame</b>	Anodized aluminum alloy
		<b>Junction Box</b>	IP68 rated
		<b>Cable</b>	4mm <sup>2</sup> , portrait: 400mm(+) / 200mm (-), landscape: 1400mm (+) / 1400mm (-), can be customized
		<b>Diode Quantity</b>	3 pcs
		<b>Connector</b>	MC4 Compatible

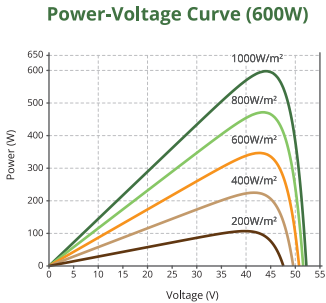
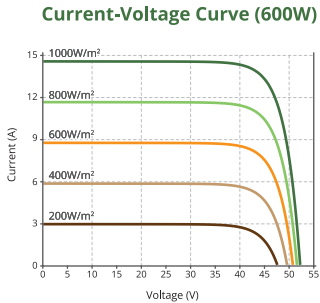
Temperature Characteristics				Maximum Parameters			
<b>Nominal Module Operating Temperature</b>	44±2°C	<b>Temperature Coefficient (Voc)</b>	-0.25%	<b>Load Rating</b>	Front Side 5400pa Rear Side 2400pa	<b>Maximum System Voltage</b>	1500V DC
<b>Temperature Coefficient (Isc)</b>	+0.043%	<b>Temperature Coefficient (P<sub>MAX</sub>)</b>	-0.30%	<b>Operating Temperature</b>	-40~+85°C	<b>Maximum Fuse Rating</b>	30A

Packaging Information			
<b>Modules Per Pallet</b>	36 pcs/pallet	<b>Per Container</b>	16 pallet/container, 576 pcs/ 40'HQ container

Electrical Performance Parameters																			
Model Type	OPA-HBDW580-182(72)						OPA-HBDW585-182(72)			OPA-HBDW590-182(72)			OPA-HBDW595-182(72)			OPA-HBDW600-182(72)			
	Testing Condition	STC	NMOT	BNPI	STC	NMOT	BNPI	STC	NMOT	BNPI	STC	NMOT	BNPI	STC	NMOT	BNPI	STC	NMOT	BNPI
<b>Nominal Max. Power</b> P <sub>MAX</sub> (W)	580	437	639	585	441	645	590	445	650	595	449	655	600	453	660				
<b>Max. Power Voltage</b> V <sub>MP</sub> (V)	42.75	40.17	42.84	42.89	40.32	42.98	43.04	40.47	43.11	43.18	40.62	43.25	43.33	40.77	43.39				
<b>Max. Power Current</b> I <sub>MP</sub> (A)	13.57	10.88	14.94	13.64	10.94	15.02	13.71	11.00	15.08	13.78	11.06	15.15	13.85	11.12	15.22				
<b>Open Circuit Voltage</b> V <sub>OC</sub> (V)	51.43	48.85	51.42	51.63	49.04	51.62	51.83	49.23	51.82	52.03	49.42	52.02	52.23	49.61	52.22				
<b>Short Circuit Current</b> I <sub>SC</sub> (A)	14.33	11.56	15.82	14.39	11.61	15.89	14.45	11.66	15.95	14.51	11.70	16.02	14.57	11.75	16.09				
<b>Module Efficiency</b> (%)		22.45			22.65			22.84			23.03			23.23					

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5; NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s; Power measurement tolerance ±3%.

Bifacial Output-rearside Power Gain						
5%	<b>Maximum Power</b> P <sub>MAX</sub> (W)	609	614	620	625	630
	<b>Module Efficiency</b> (%)	23.57	23.78	23.98	24.18	24.39
10%	<b>Maximum Power</b> P <sub>MAX</sub> (W)	638	644	649	655	660
	<b>Module Efficiency</b> (%)	24.70	24.91	25.12	25.34	25.55
25%	<b>Maximum Power</b> P <sub>MAX</sub> (W)	725	731	738	744	750
	<b>Module Efficiency</b> (%)	28.07	28.31	28.55	28.79	29.03



Data contained in these specifications is subject to change without notice.