

# CORE Series Bifacial Modules

Power Range | 610-630W

Maximum Efficiency | 23.32%

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



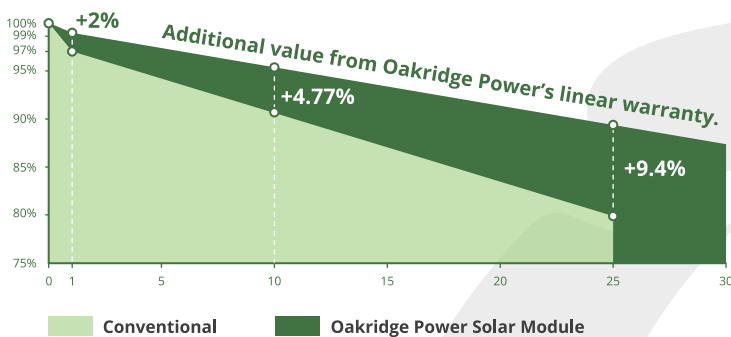
### Long-Term Reliability

- 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>	132pcs(6×22)	
	<b>Dimension</b>	2382×1134×30mm (93.78 × 44.65 × 1.18in)	
	<b>Weight</b>	32.5kg (71.65lbs)	
	<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	

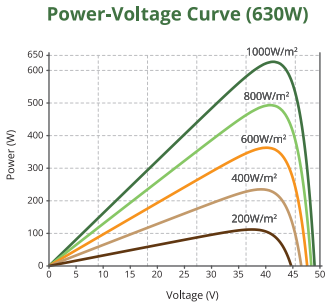
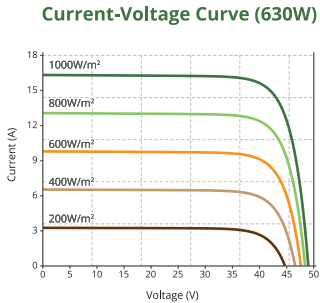
Temperature Characteristics				Maximum Parameters			
<b>Nominal Module Operating Temperature</b>	44±2°C	<b>Temperature Coefficient (Voc)</b>	-0.25%	<b>Load Rating</b>	Front Side 5400pa Rear Side 2400pa	<b>Maximum System Voltage</b>	1500V DC
<b>Temperature Coefficient (Isc)</b>	+0.043%	<b>Temperature Coefficient (P<sub>MAX</sub>)</b>	-0.30%	<b>Operating Temperature</b>	-40~+85°C	<b>Maximum Fuse Rating</b>	35A

Packaging Information			
<b>Modules Per Pallet</b>	36 pcs/pallet	<b>Per Container</b>	15 pallet/container, 540 pcs/ 40'HQ container

Electrical Performance Parameters																
Model Type	OPA-HBDW610-210R(66)			OPA-HBDW615-210R(66)			OPA-HBDW620-210R(66)			OPA-HBDW625-210R(66)			OPA-HBDW630-210R(66)			
Testing Condition	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)	610	460	673	615	464	679	620	468	685	625	472	690	630	476	696	
<b>Max. Power Voltage</b> V <sub>MP</sub> (V)	40.64	38.10	40.69	40.76	38.26	40.83	40.88	38.43	40.97	40.99	38.60	41.11	41.13	38.77	41.24	
<b>Max. Power Current</b> I <sub>MP</sub> (A)	15.01	12.08	16.54	15.09	12.13	16.63	15.17	12.18	16.72	15.25	12.23	16.79	15.32	12.28	16.88	
<b>Open Circuit Voltage</b> V <sub>OC</sub> (V)	48.69	46.20	48.70	48.82	46.33	48.83	48.95	46.46	48.96	49.08	46.59	49.09	49.21	46.72	49.22	
<b>Short Circuit Current</b> I <sub>SC</sub> (A)	15.89	12.82	17.53	15.98	12.89	17.63	16.06	12.96	17.73	16.15	13.03	17.82	16.23	13.10	17.91	
<b>Module Efficiency</b> (%)	22.58			22.77			22.95			23.14			23.32			

\* 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)	641	646	651	656	662
	<b>Module Efficiency</b> (%)	23.71	23.91	24.10	24.29	24.49
10%	<b>Maximum Power</b> P <sub>MAX</sub> (W)	671	677	682	688	693
	<b>Module Efficiency</b> (%)	24.84	25.04	25.25	25.45	25.66
25%	<b>Maximum Power</b> P <sub>MAX</sub> (W)	763	769	775	781	788
	<b>Module Efficiency</b> (%)	28.23	28.46	28.69	28.92	29.15



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