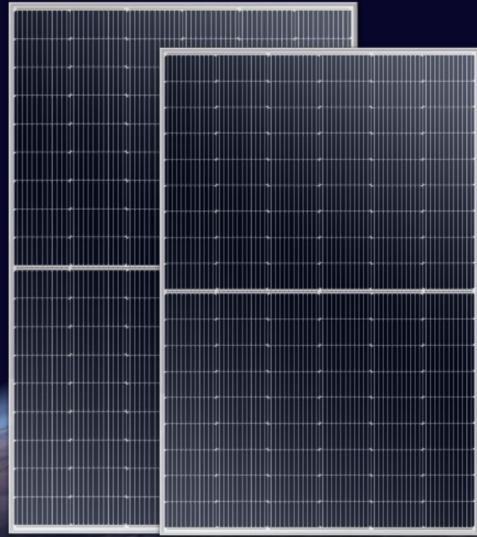


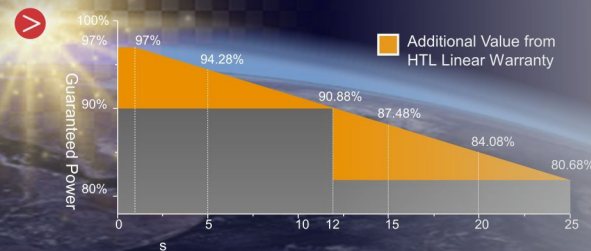
440-455 Watt

166mm 144 Cells PV Module











BLACK *BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST

12 Years Material & Craft Quality assurance	12 Years 90% Output Power guarantee	25 Years 80% Output Power guarantee	
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产品特性

PRODUCT FEATURE

-  High transmissivity, low-iron tempered glass.
-  Using high efficiency mono solar cells
-  Excellent performance in low-light environments
-  High quality junction box and connector systems
-  100% inspection, to guarantee the reliability of solar systems
-  Anti LID
-  Anti PID
-  Lower temperature coefficient

管理系统

MANAGEMENT SYSTEM

-  **ISO 9001:** Quality management system
-  **ISO 14001:** Standard for environmental management system
-  **OHSAS 18001:** International standard for occupational health and safety assessment system

产品证书

PRODUCT CERTIFICATES



电性能参数 Electrical performance parameters (STC)

组件型号	Module Type	HTL-440M6		HTL-445M6		HTL-450M6		HTL-455M6	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
最大功率	Maximum Power- Pmax(W)	440	328.6	445	334	450	336.1	455	342.6
开路电压	Open Circuit Voltage - Voc(V)	49.2	45.50	49.4	45.55	49.6	46.2	49.8	46.8
短路电流	Short- Circuit Current - Isc(A)	11.45	9.15	11.52	9.21	11.58	9.38	11.65	9.42
峰值功率电压	Voltage at Pmax -Vmp(V)	41.0	37.9	41.2	38.6	41.40	38.6	41.60	38.8
峰值功率电流	Current at Pmax - Imp(A)	10.73	8.47	10.80	8.52	10.87	8.70	10.93	8.79
组件效率	Module Efficiency -ηm(%)	20.2	/	20.5	/	20.7	/	20.9	/
功率差	Power Tolerance(W)	(0, +4.99W)							
最大系统电压	Maximum System Voltage(V)	1500Vdc (IEC)							
最高系列保险丝额定值	Maximum Series Fuse Rating (A)	20A							

STC : Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

NOCT : Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

机械参数 Mechanical Specifications

外形尺寸	External Dimensions	2094 x 1038 x 35mm
重量	Weight	23kg
太阳能电池	Solar Cells	Mono crystalline 166*83mm (6x24pcs)
玻璃	Front Glass	AR Coated 3.2 mm tempered glass
边框	Frame	Anodized aluminum alloy
接线盒	Junction Box	≥IP67
输出电缆	Output Cables	4.0mm ² , 30cm (+), 30cm (-), length can be customized
连接器	Connector	MC4 Compatible
机械负荷	Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

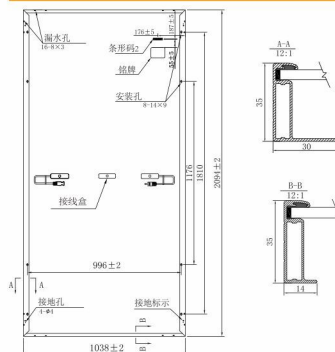
包装方式 Packing Configuration

	2094 x 1038 x 35mm	
集装箱	Container	20'GP 40'HQ
每托数量	Pieces per Pallet	31 33
每集装箱托盘	Pallets per Container	10 22
每集装箱数量	Pieces per Container	320 726

温度系数 Temperature Characteristics

峰值功率	Pmax Temperature Coefficient	-0.350%/°C
开路电压	Voc Temperature Coefficient	-0.275%/°C
短路电流	Isc Temperature Coefficient	+0.045%/°C
标准工作温度范围	Operating Temperature	-40 ~ +85°C
标准工作温度	Nominal Operating Cell Temperature(NOCT)	45 ± 2°C

尺寸图 Dimension Drawing



I-V 图表 I-V Graph

