

220-260瓦多晶太阳能光伏组件

TBEA32XXTSZ

使用高效率多晶硅电池的高效太阳能光伏组件



高透光率钢化玻璃
高透光率钢化玻璃的应用，使光伏组件对光能的吸收提高了4%以上。



可靠的电气结构
优越的散热接线盒，有效的降低了旁通二极管的工作温度，并保证了组件的最佳功率输出。



可靠的组件封装方式
采用高强度边框、高柔性和可靠的封装材料，确保电池片能够受到良好的保护，可承受5400Pa (112psf) 机械负载。



可靠的功率输出
实际的功率参数已经减去了光伏组件的早期衰减(LID)，使您的投资达到最大化。

我们的产品整合了众多优越特性，以确保产品长期的可靠性，始终为您带来最佳的投资收益。



同时可提供黑色组件



组件质保

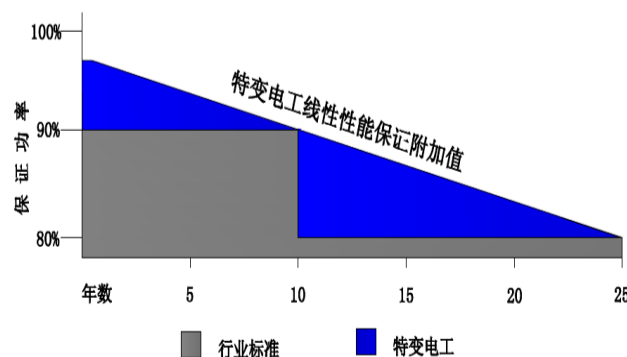
- 10年材料及制作工艺质保
- 10年内，保证产品输出功率达到90%
- 25年内，保证产品输出功率达到80%

增加版质保条款

TBEA为您提供全球领先的质保条款，从2010年1月开始，我公司全面制造低功率衰减型光伏组件，我公司光伏产品长期可靠性性能测试符合国家标准，并超越了国际标准的苛刻要求。

线性性能保证

10年产品质保，25年线性功率保证



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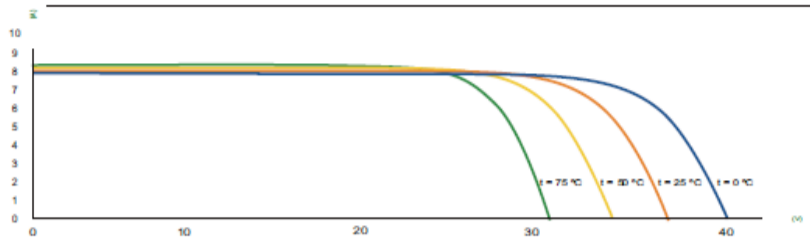
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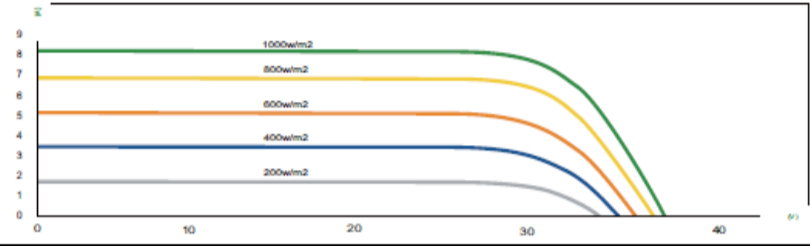
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220-260瓦太阳能光伏组件

温度特征曲线



辐照度特征曲线



电性能参数

STC	TBEA 3220	TBEA3225	TBEA3230	TBEA3235	TBEA3240	TBEA3245	TBEA3250	TBEA3255	TBEA3260
峰值功率 (Pmax)	220W	225W	230W	235W	240W	245W	250W	255W	260W
最佳工作电压 (Vmp)	29.0V	29.1V	29.1V	29.4V	29.6V	29.8V	30.2V	30.6V	31.0V
最佳工作电流 (Imp)	7.60A	7.75A	7.92A	8.00A	8.12A	8.25A	8.28A	8.34A	8.39A
开路电压 (Voc)	36.6V	36.6V	36.7V	36.9V	37.1V	37.3V	37.6V	37.8V	38.1V
短路电流 (Isc)	8.30A	8.30A	8.40A	8.40A	8.50A	8.60A	8.70A	8.80A	8.90A
组件的转换效率	13.50%	13.80%	14.10%	14.40%	14.70%	15.00%	15.40%	15.70%	16.00%
工作环境温度	-40°C ~ +85°C								
最大系统电压	600V (U.S. NEC) 1000V (IEC 61730:2007)								
最大熔丝电流	15 A								
应用等级	Class A								
功率误差	0~+3%								

光伏组件的标准测试条件 (STC): 光强: 1000W/m²; 标准太阳能辐照度分布条件: AM1.5; 组件温度: 25°C

机械特性

电池片类型	6"多晶硅电池片(156x156mm)
电池片排列方式	60 (6 x 10)
尺寸	1640x992x40mm / 64.57x39.06x1.57in
重量	19.4kg / 42.8 lbs
正面材料	高透光率钢化玻璃3.2mm (1/8th in)
密封材料	EVA
背板材料	白色或黑色的TPT/TPE
边框	银色或黑色的阳极氧化铝合金边框
接线盒	密封性(IP65 / IP67)
输出线缆	4mm ² (IEC)/12AWG(UL), 电缆长度: (+)900mm (35.43in) / (-)900mm (35.43in) 认证通过UL4703, PV1-F满足VDE EPV 01:2008-02标准
输出电缆接头	MC4或者兼容MC4连接头
标准包装	25片/包装箱
组件数量	650片/集装箱(40 ft .HQ高柜集装箱)

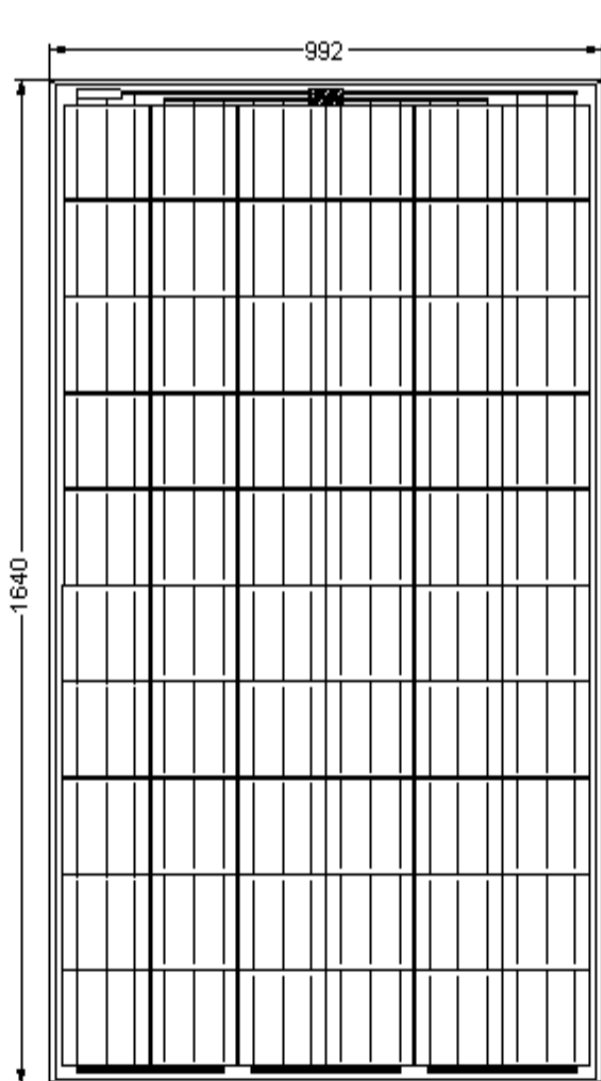
NOCT	TBEA 3220	TBEA 3225	TBEA 3230	TBEA3235	TBEA 3240	TBEA 3245	TBEA 3250	TBEA 3255	TBEA 3260
峰值功率 (Pmax)	158.5W	162W	165.6W	169.2W	174W	178W	182W	189W	194W
最佳工作电压 (Vmp)	25.9V	25.9V	25.9V	26.5V	27.3V	27.4V	27.4V	27.4V	27.4V
最佳工作电流 (Imp)	6.15A	6.26A	6.40A	6.39A	6.38A	6.50A	6.65A	6.90A	7.09A
开路电压 (Voc)	33.2V	33.3V	33.4V	33.8V	34.0V	34.1V	34.2V	34.2V	34.3V
短路电流 (Isc)	6.64A	6.72A	6.80A	6.87A	6.96A	7.08A	7.12A	7.21A	7.30A

光伏组件的标称温度 (NOCT): 光强: 800W/m²; 环境温度: 20°C; 风速: 1m/s

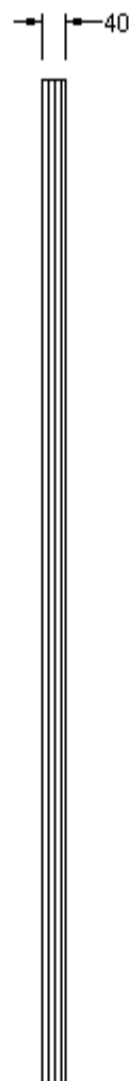
温度特性

电池标称工作温度 (NOCT)	45±2°C
最大功率温度系数	-0.40%/°C
开路电压温度系数	-0.33%/°C
短路电流温度系数	0.056%/°C

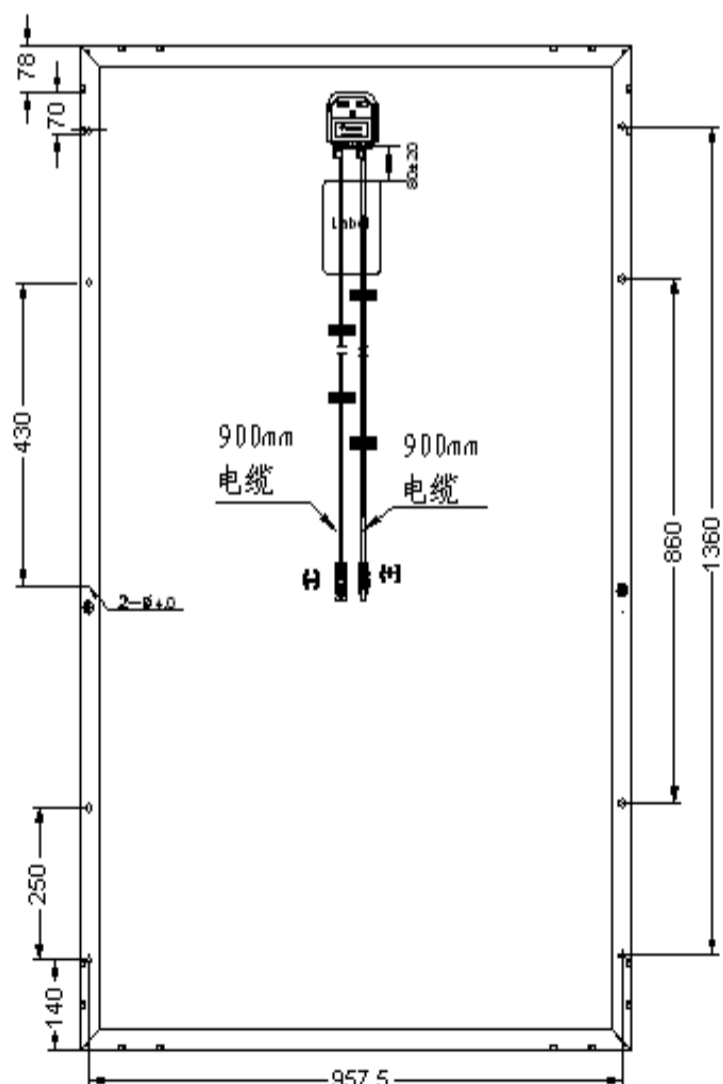
组件尺寸(mm)



正面视图



侧视图



背面视图

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220-260W Polycrystalline photovoltaic modules

TBEA32XXTSZ



High Transmission Glass
High transmission glass delivers up to 4% more energy than standard glass.



Reliable electrical connections
Special technology for cooler diode operation and optimal performance.



Reliable module package
Better cell protection thanks to robust frame and durable materials. Withstand extremes snow lands (5400Pascal).

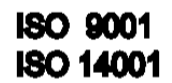


Verified power output
Our energy ratings factor the initial degradation (LID effect) to maximize your investment.



Also available in black.

Our products incorporate a number of unique features to ensure highest production yields and make solar your brightest investment ever.



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Warranty

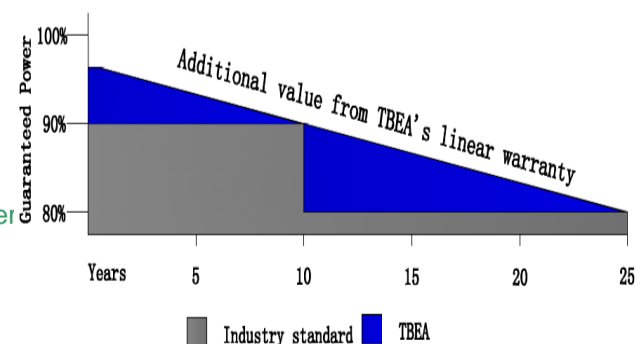
- Free from defects in materials and workmanship for 10 years
- 90% min.power output over 10 years
- 80% min.power output over 25 years

Enhanced warranty

TBEA provides an industry leading warranty, guaranteeing lower degradation rates on modules manufactured beginning January 1st, 2010. Our superior long-term performance is proven by inter testing standards that go well beyond international requirements.

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty . 25 Year Linear Power Warranty



Contact us:

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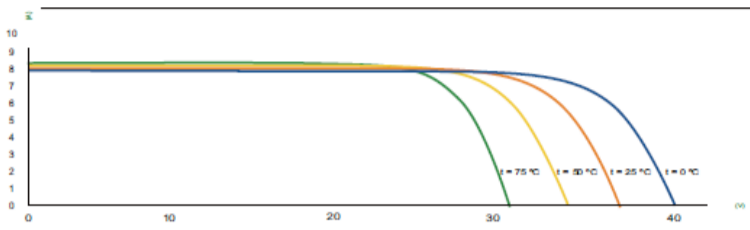
Post code: 710018

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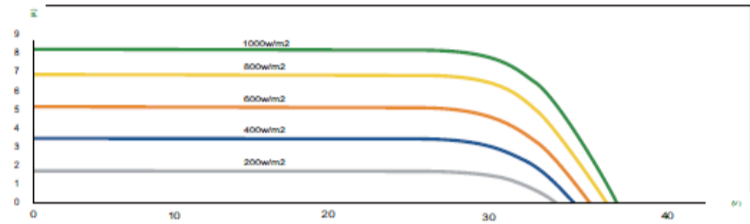
Specifications are subjected to change without prior notice

220-260W Polycrystalline photovoltaic modules

Dependence of the temperature



Dependence of the irradiance



Electrical Data

STC	TBEA 3220	TBEA3225	TBEA3230	TBEA3235	TBEA3240	TBEA3245	TBEA3250	TBEA3255	TBEA3260
Nominal Maximum Power(Pmax)	220W	225W	230W	235W	240W	245W	250W	255W	260W
Optimum Operating Voltage(Vmp)	29.0V	29.1V	29.1V	29.4V	29.6V	29.8V	30.2V	30.6V	31.0V
Optimum Operating Current(Imp)	7.60A	7.75A	7.92A	8.00A	8.12A	8.25A	8.28A	8.34A	8.39A
Open Circuit Voltage(Voc)	36.6V	36.6V	36.7V	36.9V	37.1V	37.3V	37.6V	37.8V	38.1V
Short Circuit(Isc)	8.30A	8.30A	8.40A	8.40A	8.50A	8.60A	8.70A	8.80A	8.90A
Module Efficiency	13.50%	13.80%	14.10%	14.40%	14.70%	15.00%	15.40%	15.70%	16.00%
Operating Temperature	-40°C ~ +85°C								
Maximum System Voltage	600V (U.S. NEC) 1000V (IEC 61730:2007)								
Maximum Series Fuse Rating	15 A								
Application Classification	Class A								
Power Tolerance	0~+3%								

Under Standard Test Conditions(STC)of irradiance of 1000W/m², spectrum AM 1.5 and cell temperature of 25°C

Mechanical characteristics

Cell Type	polycrystalline 6" silicon cells(156x156mm)
Cell Arrangement	60 (6 x 10)
Dimensions	1640x992x40mm / 64.57x39.06x1.57in
Weight	19.4kg / 42.8 lbs
Front Cover	High transmission 3.2mm (1/8th in)glass
Encapsulant	EVA
Back cover	White or black polyesterTPT/TPE
Frame	Silver or black anodized aluminum
Junction box	IP65 / IP67
Cable	4mm ² (IEC)/12AWG(UL),lengths:(+)900mm(35.43in)/(-)900mm(35.43in) Certified as PV Wire according to UL4703 and PV1-F according to VDE EPV 01:2008-02 standards
Connectors	MC4 or MC4 Comparable connectors
Standard	25 pcs (Modules per Pallet)
Module Pieces	650 pcs per container(40 ft .HQ Container)

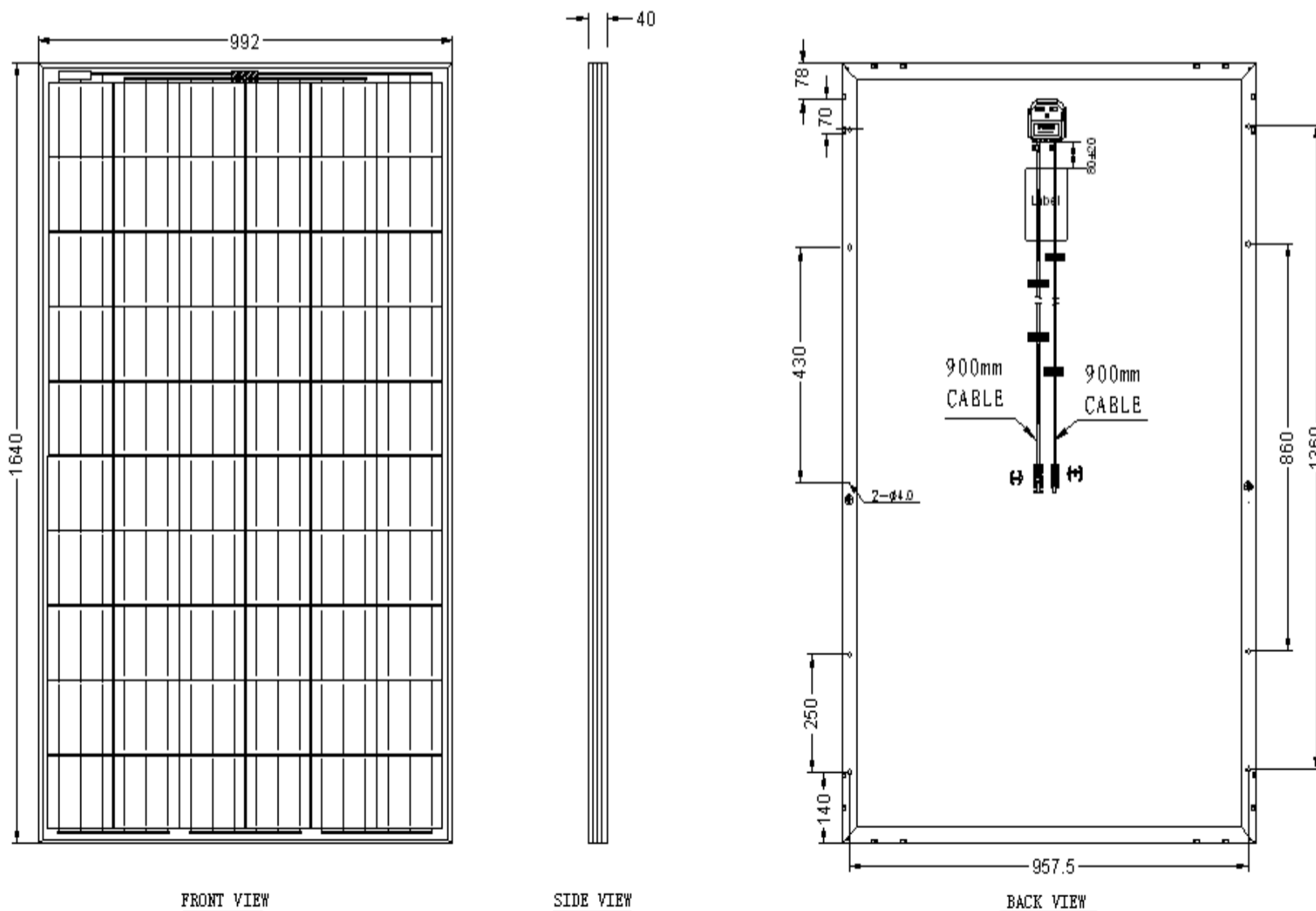
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Nominal Maximum Power(Pmax)	158.5W	162W	165.6W	169.2W	174W	178W	182W	189W	194W
Optimum Operating Voltage(Vmp)	25.9V	25.9V	25.9V	26.5V	27.3V	27.4V	27.4V	27.4V	27.4V
Optimum Operating Current(Imp)	6.15A	6.26A	6.40A	6.39A	6.38A	6.50A	6.65A	6.90A	7.09A
Open Circuit Voltage(Voc)	33.2V	33.3V	33.4V	33.8V	34.0V	34.1V	34.2V	34.2V	34.3V
Short Circuit Current(Isc)	6.64A	6.72A	6.80A	6.87A	6.96A	7.08A	7.12A	7.21A	7.30A

Under Normal Operating Cell Temperature, Irradiance of 800 W/m², ambient temperature 20°C, wind speed 1 m/s.

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.40%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.056%/°C

Module dimensions (mm)



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