



QUANTUM (量子) N型高效率雙面模組規格書 (透明網格背板)

6X22單晶矽太陽能模組

525-550Wp



標準測試條件(STC)效能

型號			TS66-CMH-525 H2						TS66-CMH-530 H2						TS66-CMH-535 H2						TS66-CMH-540 H2						TS66-CMH-545 H2						TS66-CMH-550 H2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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最大功率	Pmax	W	525	551	578	630	530	557	583	636	535	562	589	642	540	567	594	648	545	572	600	654	550	578	605	660	550	578	605	660	550	578	605	660																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
最大功率電壓	Vmp	V	40.25	40.25	40.25	40.25	40.43	40.43	40.43	40.43	40.52	40.52	40.52	40.52	40.64	40.64	40.64	40.64	40.78	40.78	40.78	40.78	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.92	40.

* Under Standard Test Condition (1,000W/m², 25°C, AM 1.5): Power Tolerance ±3%, Voc Tolerance ±3%, Isc Tolerance ±3%

* 模組轉換效率(%) = [Max power at STC(w) / ((Solar Module Area(m²) × 1000 (w/m²))] × 100%

* 背面增益: 模組背面獲得的額外功率增益相對於模組在標準測試條件下正面功率的比值。這取決於模組的具體安裝條件(結構、高度、傾角等)和地面反射率情況。

材料組合

電池片種類	單晶矽N型高效率電池
電池片/模組	單晶N型高效率電池片(132pcs)
玻璃材質	強化玻璃
封止材	低透水性封裝材料
背面材質	背板
邊框	耐鹽霧型邊框
接線盒	防水等級 IP68
連接器	EVO-2 相容性產品
電線	1500mm / 12 AWG / 4mm ²

系統整合參數

最大系統電壓	1500V
模組耐火等級	Class C
IEC 61140防護等級	Class II
最大串聯電流	30 A
二極體數量	3
工作溫度範圍	-40 to +85°C
最大荷重負載	5400 Pa (依據元晶提供之安裝手冊內容施作)

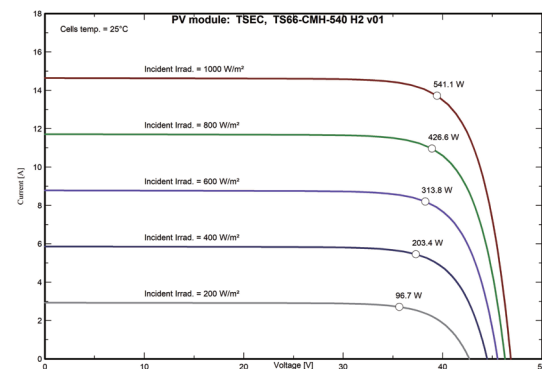
模組尺寸

尺寸	2093 x 1134 x 35mm
重量	25.5 Kg

溫度係數

標稱操作電池溫度 NOCT	°C	45±2
短路電流溫度係數	α	%/°C 0.045
開路電壓溫度係數	β	%/°C -0.25
最大功率溫度係數	γ	%/°C -0.29

電流-電壓曲線

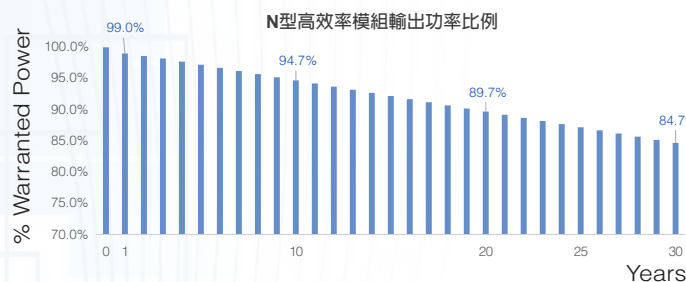
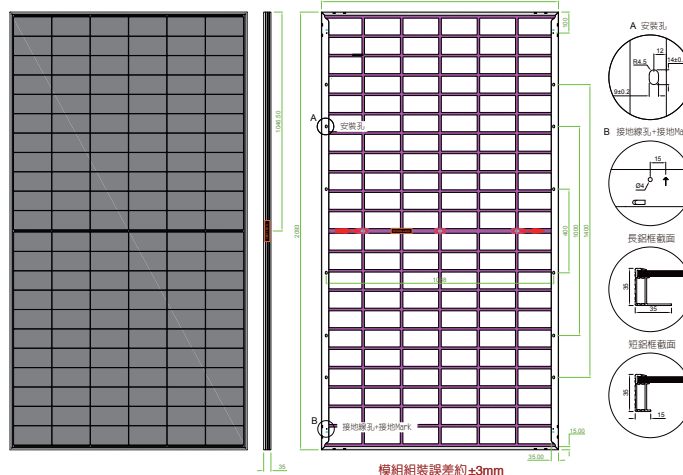


認證

- IEC 61215:2021、IEC 61730-1:2023及 IEC 61730-2:2023、UL 61730認證
- 經濟部自願性VPC產品驗證
- ISO 9001:2015 品質管理系統認證
- ISO 14001:2015 環境管理系統認證
- ISO 45001:2018 職業安全衛生管理系統認證



外觀尺寸



保固條件

- 12年產品保證
- 30年功率保證

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* TSEC 保留本型錄最終解釋與修改的權利

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