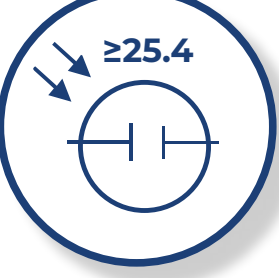
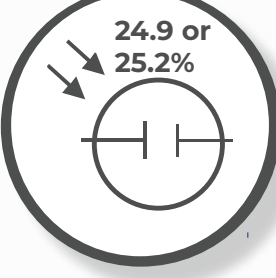
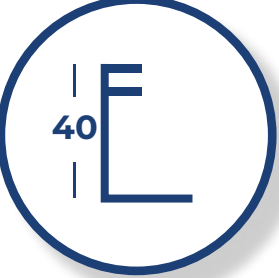
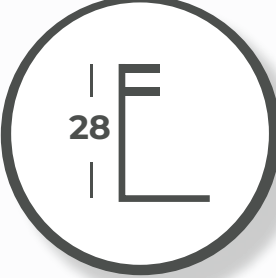
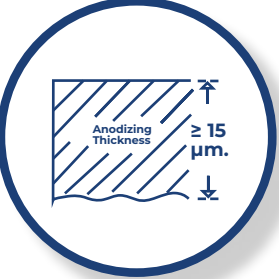
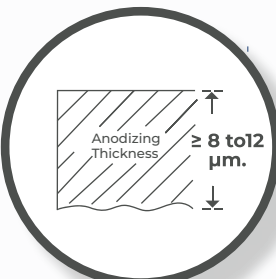

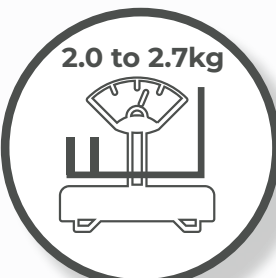
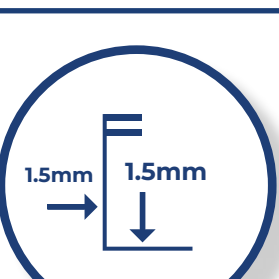
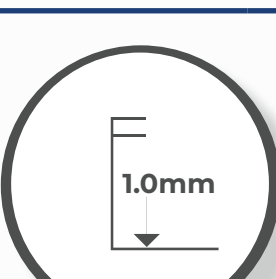



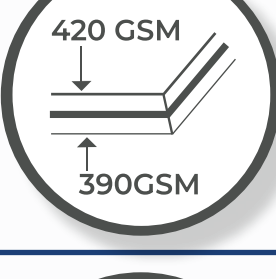
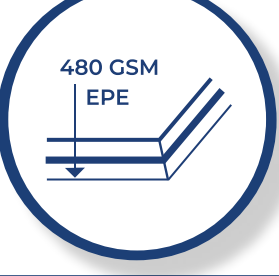
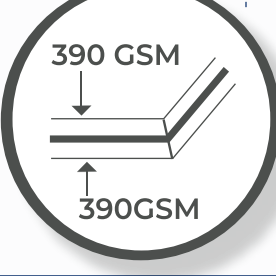
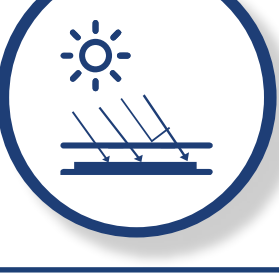
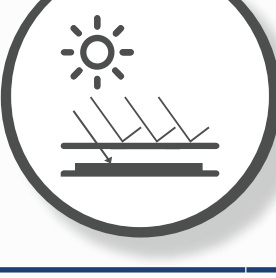
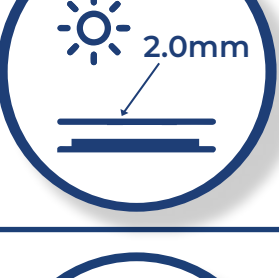
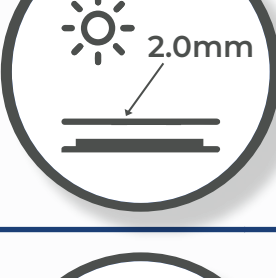
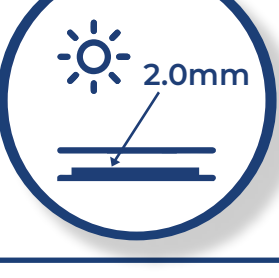
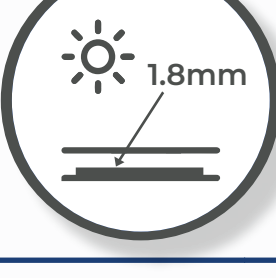

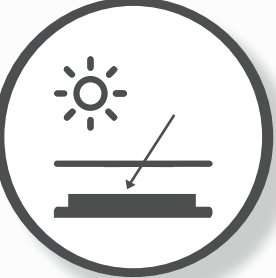
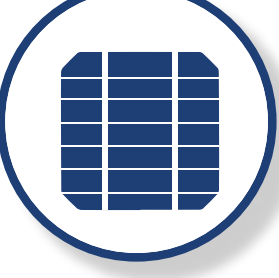
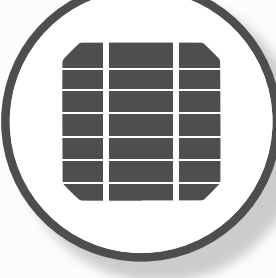






WHY PAHAL SOLAR?

Clarity in Comparison, Confidence in Performance

Description	Pahal Solar Module		Other Module Manufacturer		Impact/Effect
Cell		Cell efficiency ≥ 25.4% .		Cell efficiency 24.9% to 25.2% .	Usage of high-quality A-grade cells improves generation.
					Longer module lifespan against UV , high temperature , and weathering .
Aluminium Frame		40mm frame height.		28-35mm frame height.	Lower height reduces mechanical strength .
		Anodizing thickness ≥ 15µm .		Anodizing ≤ 8-12µm .	Less anodizing increases rust risk over time period.
		Frame set weight ≥ 3kg . *		Frame set weight 2.0-2.7kg .	Lower weight reduces module strength — micro-cracks due to bending , resulting in decreasing generation .
		Frame thickness 1.5mm (±0.2mm) .		Thickness 1.0-1.2mm (±0.2mm) .	Thinner frame reduces structural strength against wind load .
Encapsulant (EPE)		Higher GSM EPE used.		Lower GSM used.	Lower GSM increases hotspot risk over time period.
		Front: 520 GSM .		420 GSM EPE front and 390 GSM EPE back.	Moisture penetration causes de-lamination .
		Back: 480 GSM .		390 GSM EPE front and 390 GSM EVA back.	Lower GSM leads to faster de-gradation .
Solar Glass		HTAR (High Transmission Anti-Reflective) coated glass.		ARC (Anti-Reflective Coated) glass.	HTAR glass lets 0.4-0.5% more photons through , resulting in improving generation .
		Front: 2.0mm thick.		Front: 2.0mm thick.	HTAR coating is stronger and more UV resistant .
		Back: 2.0mm thick.		Back: 1.8mm thick.	
		Back side white grid printed glass .		No grid printing.	White grid returns photons to the cell, boosting generation .
Ribbon		High quality PV Ribbon Ø 0.26mm .		Ribbon Ø 0.24mm .	Thinner ribbon increases resistance and voltage drop , reducing power output .
Production Line		100% AI-based latest advanced technology.		AI technology is generally not used in the manufacturing process.	AI technology based manufacturing improve solar panel quality .
Research & Development (R&D)		State of the art in-house R&D laboratory.		Limited R & D Infrastructure.	Ongoing research enables top-quality module supply in the market .
					Strict testing ensures long-term module quality .

● The materials may change due to technology and other reasons as required . * Depends on Frame thickness 1.5mm (±0.2mm).

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