

MONO CRYSTALLINE



AR COATED
TEMPERED
GLASS.



PRE & POST
EL CHECKING TO
ENSURE DEFECT
FREE MODULES.



IP68 HIGH
QUALITY
JUNCTION
BOX



HIGH
RENUMERATION
ON
SAVINGS.



OPTIMUM RAW
MATERIALS FOR
BEST QUALITY &
RELIABILITY

525WP TO 550WP

**PAHAL SOLAR'S
EXCLUSIVE
LINEAR HIGH
PERFORMANCE
WARRANTY**

PRODUCT WARRANTY

10 YEARS

PERFORMANCE WARRANTY

Output power 90% for 10 years
and 80% for 27 years

ELECTRICAL PARAMETERS

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)

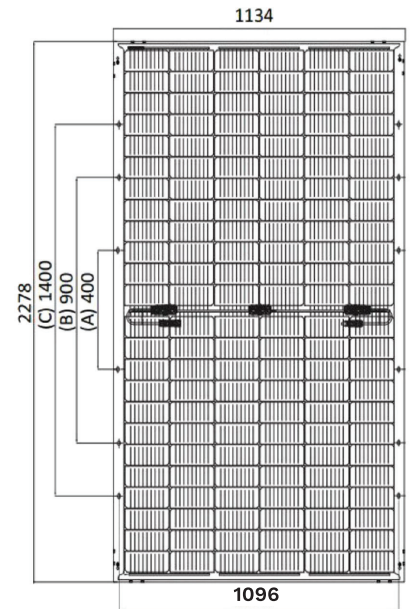
(Irradiance of 1000 W/m², Spectrum AM 1.5 and Cell Temperature 25°C)

MODEL NUMBER	PS_525	PS_530	PS_535	PS_540	PS_545	PS_550
Capacity Rating Pmax (Wp)	525	530	535	540	545	550
+ve Power Tolerance (W)	0-5	0-5	0-5	0-5	0-5	0-5
Rated Voltage -Vmp (V)	40.80	40.94	41.10	41.36	41.62	41.87
Rated Current Imp (A)	12.87	12.95	13.03	13.07	13.10	13.14
Open Circuit Voltage (Voc)	48.87	49.04	49.21	49.41	49.61	49.81
Short Circuit Current (Isc)	13.63	13.76	13.83	13.89	13.94	14.00
Module Efficiency (%)	20.32	20.51	20.71	20.90	21.09	21.29

PERFORMANCE UNDER NOMINAL OPERATING CELL TEMPERATURE (NOCT)

(NOCT Irradiance of 800 W/m², Ambient Temperature of 20°C, Wind speed 1mis, Average NOCT = 45±2°C)

MODEL NUMBER	PS_525	PS_530	PS_535	PS_540	PS_545	PS_550
Capacity Rating Pmax (Wp)	389	393	396	400	404	407
Rated Voltage Vmp (V)	38.67	38.81	38.96	39.20	39.45	39.69
Rated Current Imp (A)	10.05	10.12	10.17	10.20	10.23	10.26
Open Circuit Voltage (Voc)	46.32	46.49	46.65	46.84	47.03	47.22
Short Circuit Current (Isc)	10.64	10.75	10.80	10.84	10.89	10.93



TEMPERATURE CO-EFFICIENTS

Tk Isc %/°C	0.0264
Tk Voc %/°C	-0.2316
Tk Pmax%/°C	-0.3106

MECHANICAL SPECIFICATIONS

Matrix/No. of Cells	2x(12X6)/144
Cell Size (mm)	182*91
Cell Busbar	10
Dimensions (LXWXH) (mm)	2278*1134*40
Weight (kg)	28
Frame	Silver Anodized Aluminium Alloy
Glass	ARC Coated Low Iron Tempered
Encapsulant	EVA/POE/EPE (PID free and UV Resistant)
Backsheet	PVDF Based Composite Film
Junction Box	Split JB - IP68, MC4 Compatible
Cable Length	400 mm or customised length
Safety Class Rating	Class II
Mechanical Load Test	5400 Pa - Front / 2400 Pa - Back
X-Pitch (mm)	1096
Y-Pitch (mm)	(A) 400 (B) 900 (C) 1400
Application Class Rating	Class A

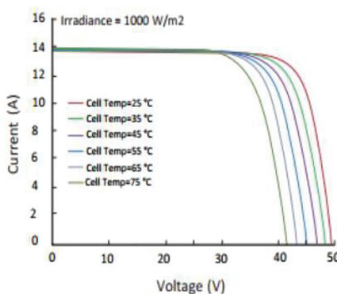
MAX. OPERATING CONDITIONS

Operating Temperature	-40°C to +85°C
Max.System Voltage	1500 V
Max.Series Fuse Rating	25 A
NOCT Temperature	45° ± 2

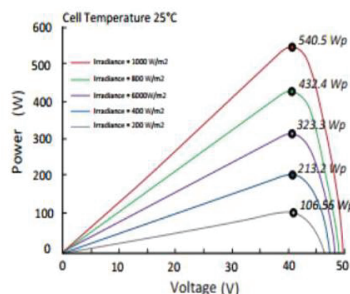
PACKING STANDARD

Frame Size	40 mm	
Vehicle	19 ft	32 ft
No. of Modules	192	432
No. of Pallets	8	16
Module per Pallet/Weight	24/672	27/756

I-V CURVE WITH TEMPERATURE



P-V CURVE WITH IRRADIANCE



I-V CURVE WITH IRRADIANCE

