



PR-555-GG 530-555W

MonoPERC-144cell-M10 Dual Glass
Maximum Efficiency 21.5%
Positive Power Tolerance 0~+5W

High Conversion Efficiency

High panel efficiency to guarantee high power output

Lower LCOE

Up to 25% more power generation in bifacial type (depending on Albedo)

Better Weak Light Performance

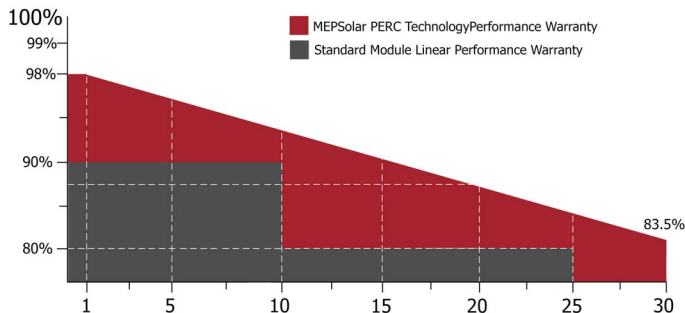
Higher power output even under low-light environment like on cloudy or foggy days

Lower Temperature Coefficient

Better performance of the solar panel in higher temperature environment or hot days

More Weather Resistance

Resistant to harsh environment such as salt, ammonia, sand, high temperature and high humidity area



Product & System Certificates

IEC61215/IEC61730

ISO9001 : Quality Management System

ISO14001 : Environment Management System



Mana Energy Pak

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Electrical Specification (STC) - Front Side

STC: AM1.5 1000W/m² 25°C [Test Uncertainty: ±3%]

Model	PR-555-GG 530	PR-555-GG 535	PR-555-GG 540	PR-555-GG 545	PR-555-GG 550	PR-555-GG 555
Max Power P _{mp} [W]	530	535	540	545	550	555
Max Power Voltage V _{mp} [V]	41.90	42.02	42.14	42.26	42.38	42.50
Max Power Current I _{mp} [A]	12.66	12.74	12.82	12.91	12.98	13.07
Open Circuit Voltage V _{oc} [V]	50.95	51.06	51.17	51.28	51.39	51.50
Short Circuit Current I _{sc} [A]	13.43	13.50	13.58	13.64	13.71	13.80
Efficiency [%]	20.5	20.7	20.9	21.1	21.3	21.5

*Positive Power Tolerance 0~+5W

Electrical Specification (NMOT) - Front Side

NMOT: 800W/m² 20°C 1m/s [Test Uncertainty: ±3%]

Model	PR-555-GG 530	PR-555-GG 535	PR-555-GG 540	PR-555-GG 545	PR-555-GG 550	PR-555-GG 555
Max Power P _{mp} [W]	397	401	404	408	412	416
Max Power Voltage V _{mp} [V]	39.05	39.18	39.30	39.46	39.62	39.81
Max Power Current I _{mp} [A]	10.17	10.23	10.30	10.36	10.40	10.46
Open Circuit Voltage V _{oc} [V]	48.09	48.17	48.22	48.33	48.47	48.55
Short Circuit Current I _{sc} [A]	10.75	10.80	10.87	10.92	10.98	11.05

Bifaciality Power Generation Gain (Regarding 550W as an example)

Power Gain [%]	0	5	10	15	20	25
Max Power P _{mp} [W]	550	578	605	633	660	688
Max Power Voltage V _{mp} [V]	42.38	42.40	42.40	42.40	42.50	42.50
Max Power Current I _{mp} [A]	12.98	13.62	14.27	14.92	15.53	16.18
Open Circuit Voltage V _{oc} [V]	51.39	51.45	51.45	51.45	51.55	51.55
Short Circuit Current I _{sc} [A]	13.71	14.51	15.19	15.89	16.66	17.32

Mechanical Data

Solar Cell	P-Type 182mm x 91mm - [12x12]
Module Dimension	2278x1134x30 mm
Weight	32.5kg
Front Cover	Glass - 2mm Semi Temperd AR Coated
Back Cover	Glass - 2mm Semi Temperd
Frame	Silver - Anodized Aluminium Alloy
Junction Box	IP68 Rated - 3 Bypass Diodes
Cable	4.0m ² - 300mm

Temperature Ratings

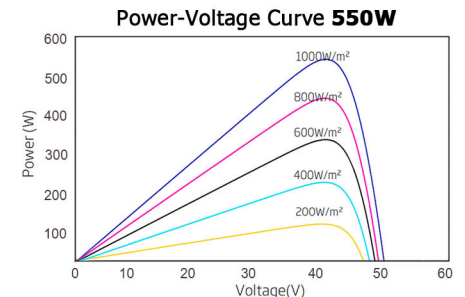
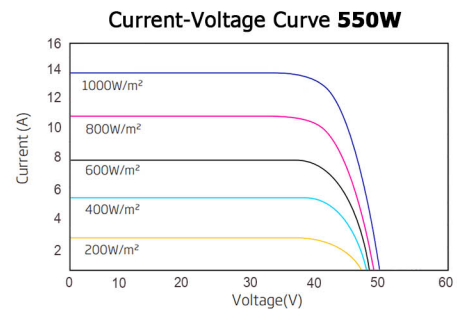
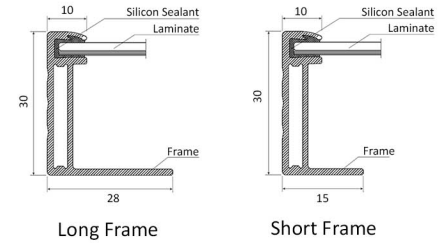
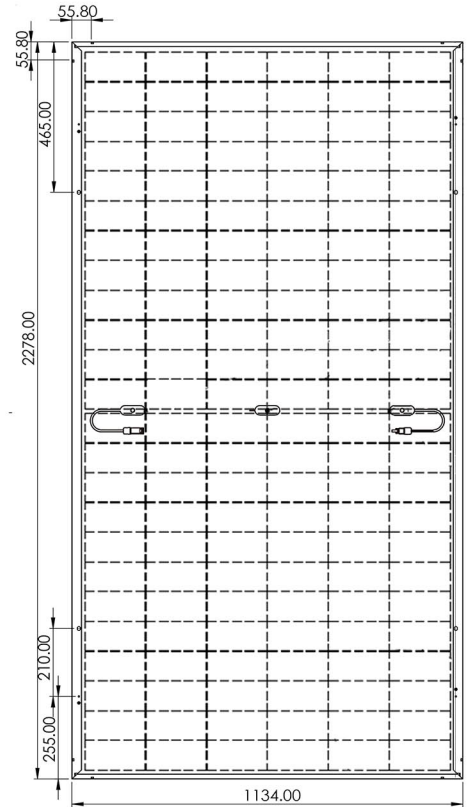
Temperature Coefficient	I _{sc}	α	[%/°C]	+0.05
Temperature Coefficient	V _{oc}	β	[%/°C]	-0.27
Temperature Coefficient	P _{max}	γ	[%/°C]	-0.35
Nominal Module Operating Temperature	NMOT		[°C]	44 ± 2

Operating Properties

Max System Voltage	1500V
Max System Fuse Rating	30 A
Operational Temperature	-40 to +85 °C
Bifaciality Tolerance	±5%
Bifaciality = P _{maxrear} (STC) / P _{maxfront} (STC)	70%

Packaging Information

# Module per Pallet	35
# Pallet per 45'HC Container	22
# Pallet per 40'HC Container	20
# PCs per Container 40'HC	700
Pallet Weight (kg)	1145



Caution:

To operate, install and manage MEPSOLAR's modules, read the installation manual and use carefully.

Observations:

This Datasheet is subject to change without notice due to continuous improvement of our products. You can find all records of the updates on our website www.manaenergypak.com or by contacting one of our sales staff. All rights reserved ©Mana Energy Pak



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