



PR-655-GG 640-665W

MonoPERC-132cell-G12 Dual Glass
Maximum Efficiency 21.4%
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

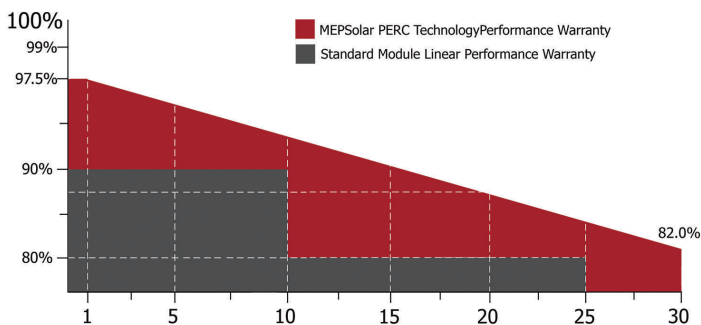
Higher power output even under low-light environment like on cloudy or foggy days

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

ISO1404 : Greenhouse Gases Emission Varification



Mana Energy Pak

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Electrical Specification (STC) - Front Side			STC: AM1.5 1000W/m ² 25°C [Test Uncertainty: ±3%]					
Model			PR-665-GG 640	PR-665GG 645	PR-665-GG 650	PR-665-GG 655	PR-665-GG 660	PR-665-GG 665
Max Power	P _{mp}	[W]	640	645	650	655	660	665
Max Power Voltage	V _{mp}	[V]	37.57	37.83	38.09	38.16	38.35	38.55
Max Power Current	I _{mp}	[A]	17.05	17.06	17.07	17.17	17.21	17.25
Open Circuit Voltage	V _{oc}	[V]	44.49	44.69	44.89	45.09	45.29	45.49
Short Circuit Current	I _{sc}	[A]	18.20	18.23	18.27	18.31	18.36	18.41
Efficiency		[%]	20.6	20.8	20.9	21.1	21.2	21.4

*Positive Power Tolerance 0~+5W

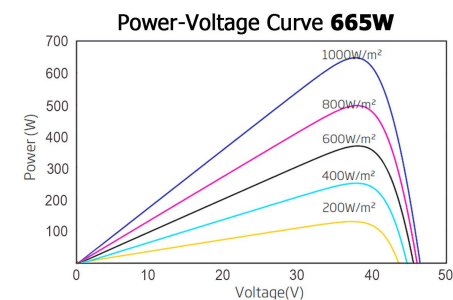
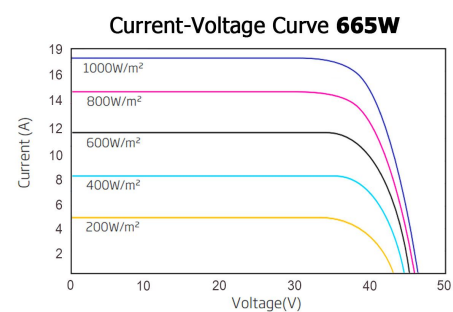
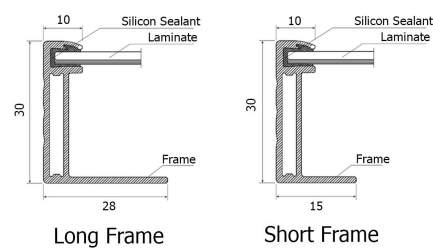
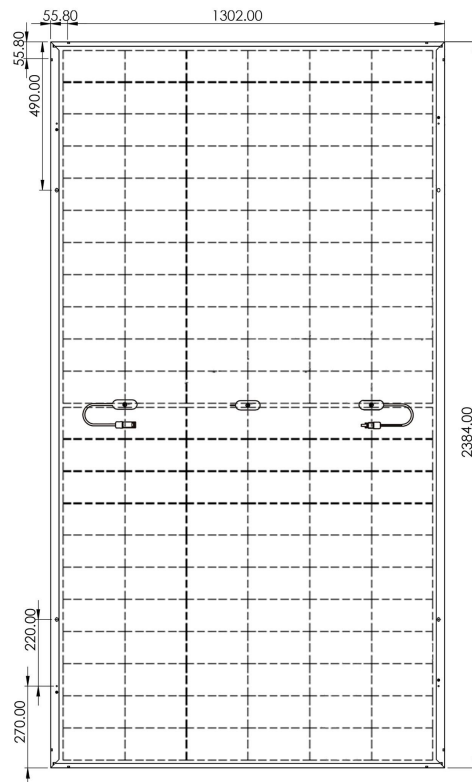
Electrical Specification (NMOT) - Front Side			NMOT: 800W/m ² 20°C 1m/s [Test Uncertainty: ±3%]					
Model			PR-665-GG 640	PR-665GG 645	PR-665-GG 650	PR-665-GG 655	PR-665-GG 660	PR-665-GG 665
Max Power	P _{mp}	[W]	480	483	487	491	496	499
Max Power Voltage	V _{mp}	[V]	35.20	35.31	35.55	35.72	35.97	36.11
Max Power Current	I _{mp}	[A]	13.64	13.69	13.71	13.75	13.79	13.82
Open Circuit Voltage	V _{oc}	[V]	42.19	42.28	42.45	42.71	42.93	43.09
Short Circuit Current	I _{sc}	[A]	14.70	14.74	14.78	14.83	14.87	14.91

Bifaciality Power Generation Gain (Regarding 650W as an example)								
Power Gain		[%]	0	5	10	15	20	25
Max Power	P _{mp}	[W]	650	683	715	748	780	813
Max Power Voltage	V _{mp}	[V]	38.09	38.10	38.10	38.10	38.20	38.20
Max Power Current	I _{mp}	[A]	17.07	17.91	18.77	19.62	20.42	21.27
Open Circuit Voltage	V _{oc}	[V]	44.89	44.90	44.90	44.90	45.00	45.00
Short Circuit Current	I _{sc}	[A]	18.27	19.12	20.05	20.98	21.80	22.74

Mechanical Data	
Solar Cell	P-Type 210mm x 105mm - [12x11]
Module Dimension	2384x1302x30 mm
Weight	38kg
Front Cover	Glass - 2mm Semi Tempered AR Coated
Back Cover	Glass - 2mm Semi Tempered
Frame	Silver Anodized Aluminium Alloy
Junction Box	IP68 Rated - 3 Bypass Diodes
Cable	4.0m ² - 400mm

Temperature Ratings				
Temperature Coefficient	I _{sc}	α	[%/°C]	+0.05
Temperature Coefficient	V _{oc}	β	[%/°C]	-0.27
Temperature Coefficient	P _{max}	γ	[%/°C]	-0.34
Nominal Module Operating Temperature	NMOT		[°C]	44 ± 2

Operating Properties		Packaging Information	
Max System Voltage	1500V	# Module per Pallet	35
Max System Fuse Rating	35 A	# Pallet per 45'HC Container	12
Operational Temperature	-40 to 85 °C	# Pallet per 40'HC Container	10
Bifaciality Tolerance	±5%	# PCs per Container 40'HC	350
Bifaciality _{-(P_{maxrear}(STC)/P_{maxfront}(STC))}	70%	Pallet Weight (kg)	1335



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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