

MEP555-P144-GB

MonoPERC-144cell-M10 Monofacial

0~+5W

Positive Power Tolerance

21.5%

Maximum Efficiency

⚡ 530-555W

High Conversion Efficiency

High solar panel efficiency to guarantee high power output

Better Weak Light Performance

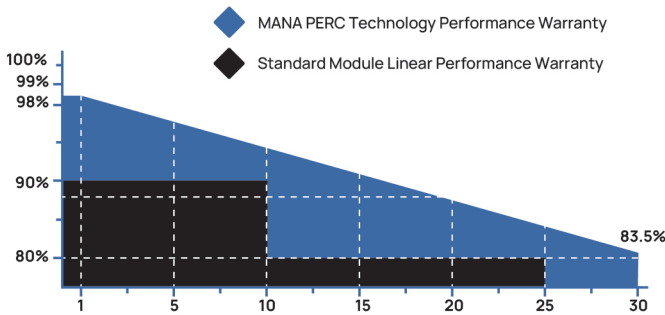
Higher power output even under low-light environment like on cloudy or foggy days

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



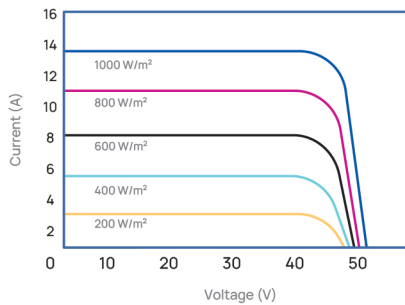
Mana Energy's Certificates

TUV Certificate IEC 61215: 2021
 TUV Certificate IEC 61730: 2016
 TUV Certificate IEC 61730: 2023
 CE Certification (EN 61730:2018)
 UKCA Certification (EN 61730:2018)
 CEBEC Certification (IEC 61215: 2021 / IEC 61730: 2023)
 ISO 9001:2015: Quality management system
 ISO 14001:2015: Environmental management system
 ISO 45001:2018: Occupational health and safety management system

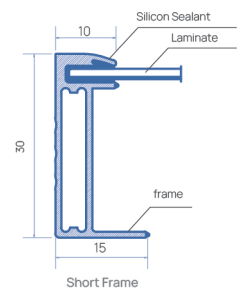
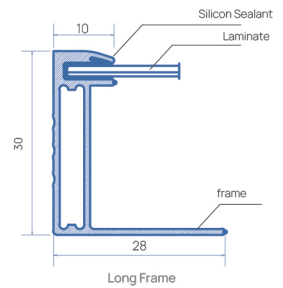
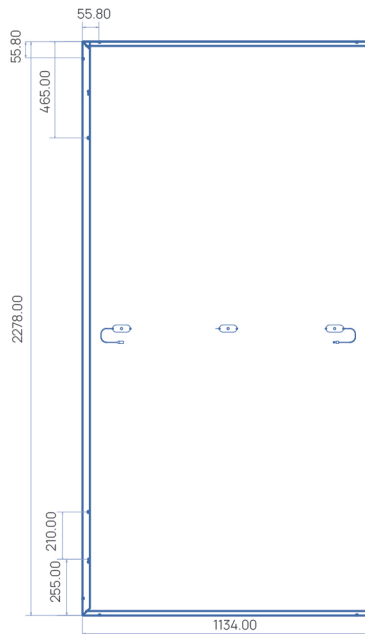
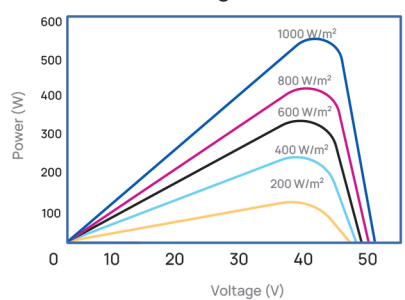


30 YEARS	Performance Warranty	12 YEARS	Product Warranty
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Current-Voltage Curve 555W



Power-Voltage Curve 555W



Caution

To operate, install and manage Mana Energy Modules, read the installation manual and use carefully.

Observation

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. Allrights reserved @Mana Energy.



MEP555-P144-GB

Electrical Specificatuin (STC) - Front Side			STC: AM1.5 1000W/m ² 25°C [Test Uncertainty: ±3%]					
Model			MEP555-P144-GB 530	MEP555-P144-GB 535	MEP555-P144-GB 540	MEP555-P144-GB 545	MEP555-P144-GB 550	MEP555-P144-GB 555
Max Power	Pmp	[W]	530	535	540	545	550	555
Max Power Voltage	Vmp	[V]	41.90	42.02	42.14	42.26	42.38	42.50
Max Power Current	Imp	[A]	12.66	12.74	12.82	12.91	12.98	13.07
Open Circuit Voltage	Voc	[V]	50.95	51.06	51.17	51.28	51.39	51.50
Short Circuit Current	Isc	[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

Electrical Specificatuin (NMOT) - Front Side			NMOT: 800W/m ² 20°C 1m/s [Test Uncertainty: ±3%]					
Max Power	Pmp	[W]	397	401	405	409	412	416
Max Power Voltage	Vmp	[V]	39.05	39.18	39.30	39.46	39.62	39.81
Max Power Current	Imp	[A]	10.17	10.23	10.30	10.36	10.40	10.46
Open Circuit Voltage	Voc	[V]	48.09	48.17	48.22	48.33	48.47	48.55
Short Circuit Current	Isc	[A]	10.75	10.80	10.87	10.92	10.98	11.05

Mechanical Data	
Solar Cell	P-Type 182mm × 91mm - [12×12]
Module Dimension	2278×1134×30 mm
Weight	28.6kg
Front Cover	Glass - 3.2mm Tempered AR coated
Back Cover	White Backsheet
Frame	Silver - Anodized Aluminium Alloy
Junction Box	IP68 Rated - 3 Bypass Diodes
Cable	4.0m ² - 300mm

Temperature Ratings				
Temperature Coefficient	Isc	α	[%/°C]	+0.05
Temperature Coefficient	Voc	β	[%/°C]	-0.27
Temperature Coefficient	Pmax	γ	[%/°C]	-0.35
Nominal Module Operating Temperature	NMOT		[°C]	44±2

Operating Properties	
Max System Voltage	1500V
Max System Fuse Rating	25 A
Operational Temperature	-40 to +85 °C
Power Tolerance	+5W

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)	1010