



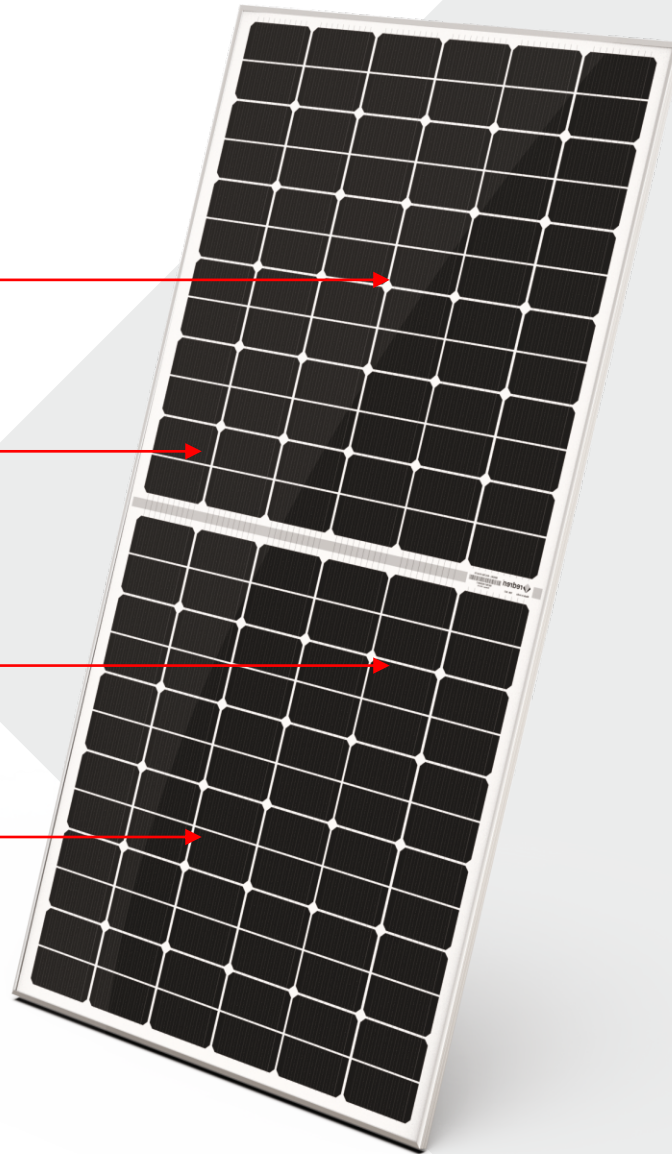
## Introducing All New **VIGOR** Series

Upto **21.4%**  
Efficiency

**550 Wp**  
Solar Module

**Low Operating**  
Temperature

**New MBB half**  
Cut Cell Technology



### KEY FEATURES

- ◆ Higher Output Of Power
- ◆ Low Shadow Loss On The Power Output
- ◆ High Grade Anodize Aluminum Frame
- ◆ Optimize The Temperature Coefficient
- ◆ High Mechanical Load Bearing Strength
- ◆ Lower LCOE & BOS



Superior Module Efficiency As  
Per International Benchmarks



1500 VDC System  
Voltage For Lower Bos Cost



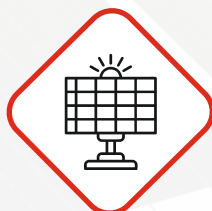
Modules binned by current to  
improve system performance



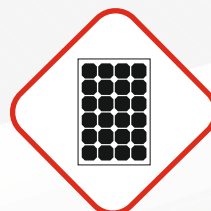
Glass With Anti Reflective Coating  
Improves Light Transmission



Salt Mist, Blowing Sand  
And Hail Resistant



Sustain Heavy Wind & Snow  
Loads (2400 Pa & 5400 Pa)



Pid Resistant With Long  
Term Reliability



Linear Power  
Warranty



## VIGOR Series

### Electrical Parameters at STC.

MODEL NO.	RPLUS M HC 530	RPLUS M HC 535	RPLUS M HC 540	RPLUS M HC 545	RPLUS M HC 550
Nominal Maximum Power P(max)	530	535	540	545	550
Voltage at Max. Power Vmp(V)	41.39	41.54	41.63	41.71	42.05
Current at Max. Power Imp(A)	12.81	12.9	12.98	13.09	13.18
Open Circuit Voltage - Voc(V)	49.24	49.39	49.54	49.71	49.87
Short Circuit Current - Isc(A)	13.7	13.75	13.82	13.89	13.94
Module Efficiency (%)	20.7	20.9	21.1	21.3	21.5

\* Under Standard Test Conditions (STC) of irradiance of 1000W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

### Electrical Parameters at NOCT.

MODEL NO.	RPLUS M HC 530	RPLUS M HC 535	RPLUS M HC 540	RPLUS M HC 545	RPLUS M HC 550
Nominal Maximum Power P(max)	396.2	399.8	403.7	407.2	410.9
Voltage at Max. Power Vmp(V)	38.5	38.65	38.76	38.94	39.04
Current at Max. Power Imp(A)	10.29	10.34	10.42	10.45	10.53
Open Circuit Voltage - Voc(V)	46.12	46.28	46.42	46.55	46.68
Short Circuit Current - Isc(A)	11.08	11.17	11.19	11.26	11.32

### Mechanical Parameters

Dimensions:	2305x1140x35 mm
Cell:	M10 144 Cut cells , 10 BB Mono PERC
Weight:	27 Kg
Front Cover:	ARC coated Hi Transmission Tempered Glass
Frame Material	Anodized Aluminium Alloy
J Box:	IP 68 Three Diodes
Connector:	MC4
Module per Pallet:	30 Nos
Module Per Container(40 HQ)	600 Pcs

### Temperature Parameters

Temperature Co-efficient of Pmax	-0.350 % / °C
Temperature Co-efficient of Voc	-0.271 % / °C
Temperature Co-efficient of Isc	+0.048 % / °C
Nominal Module Operating Temperature °C	45 °C
Operating Temperature Range °C	-40 to +85 °C

### Product Safety Ratings

Maximum System Operating Voltage	1500 VDC
Maximum Over Current Protecting Rating	25A
Safety Class	Class II
Fire Rating	UL type 1 or 2

\*Certifications are under process

\*\*Irradiance of 1000W/m<sup>2</sup>, spectrum AM of 1.5 & cell temperature of 25°C

\*\*\*Refer Redren Solar warranty document for terms & conditions.

#### WARRANTY

Product Warranty : 10 Year\*\*\*

Performance Warranty\*\*\* : Limited Warranty for Power Output  
(90% for 10 years & 80% for 27 years)

The aforesaid datasheet only provides the general information on Redren Solar PV Modules, due to the on-going innovation and improvement Specifications included in this datasheet are subject to change without notice. Redren Reserves the rights of final interpretation and revision of datasheet.

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