



## SOLAR PACKAGE 2020

### [Overview](#)

We invite you to explore what Mifsud Electrical & Solar have to offer for your Solar needs.





## **About Us**

Mifsud Electrical & Solar is a business which concentrates on delivering professional and high-quality work. We work hard on ensuring that our builders and clients have had the best electrical & solar experience during and also after our work is completed.

Organisation is one big key that we work on so that our jobs are completed on time. We work hard on maintaining a high-level workmanship and take pride in attention to detail. We strive to make sure that the job at hand has been completed to customers satisfaction and always clean up after ourselves.

The electrical and solar industry at present is a place which is booming with new and exciting ideas and the Mifsud Electrical & Solar team is always working hard by keeping up to date with current trends, by providing information and expressing these ideas with our builders and clients.

When it comes down to product supply, we believe in only using quality material and take no short cuts on this. We also do offer floor plan layouts and solar proposals to submit to our customers before a job has been carried out so that they can get the full understanding of the electrical and solar design to their new home.

We are an accredited solar designer and installer through Clean Energy Council.

We look forward in providing you with a great electrical and solar experience.





LG Solar panels are a high-end panel when it comes to the solar industry, they are one of the more expensive panels on the market and are highly recommended. Please see list of advantages for using LG panels and why we think it will advantage your full benefits of solar installation on your home or business.

- Korean Made panel with maintaining quality control
- Looks aesthetically pleasing with a black aluminium alloy frame.
- High performance percentage over 25 years at least 98% of nominal power during first year, a maximum degradation of 0.33.% per year up to 25 years.
- LG NEON2+350W offer a 25-year product and 25-year performance warranty as opposed to other companies offering a 10-year product warranty.
- High Wind load resistance of rear load of 4000pa and have been tested through harsh environments and have an extreme weather rating which is suitable for the Australian environment.

Choosing LG panels, we guarantee you will not be disappointed although they are a more expensive product, they are one of the best performing panels and will be a successful investment over its lifetime.



Q CELL panels are a mid-priced panel when it comes to the Solar industry and are highly recommended. Please see list of advantages for using QCELL Panels and why we think it will advantage your full benefits of Solar installation on your home or business

- German engineered panel, Korean made maintaining quality control.
- Looks aesthetically pleasing with a black aluminium alloy frame.
- High performance percentage over 25 years at least 98% of nominal power during first year, a maximum degradation of 0.54% per year up to 25 years.
- Q. PEAK DUO-G5+ AND G6+ offer a 25-year product and 25-year performance warranty  
QMAXX – offer a 12-year Product warranty and 25-year performance warranty  
As opposed to other companies offering a 10-year product warranty.
- High Wind load resistance of Rear load of 4000pa and have been tested through harsh environments and have an extreme weather rating which is suitable for the Australian environment.

Choosing QCELLS we guarantee you will not be disappointed they are an affordable product which offer great performance over its lifetime.



Trina Solar panels are a Low to Mid-priced panel when it comes to the solar industry, please see list of details for using Trina panels and why this might be an investment of your choice.

- Made in china and have certificates of quality management.
- Looks aesthetically pleasing with a black aluminium alloy frame.
- Mid performance percentage over 25 years at least 97.5% of nominal power during first year, a maximum degradation of 0.6% per year up to 25 years.
- Trina DD06M.08(II) offer a 10-year product and 25-year performance warranty
- Rear Wind load resistance of 2400pa and have been tested and are suitable for Australian conditions

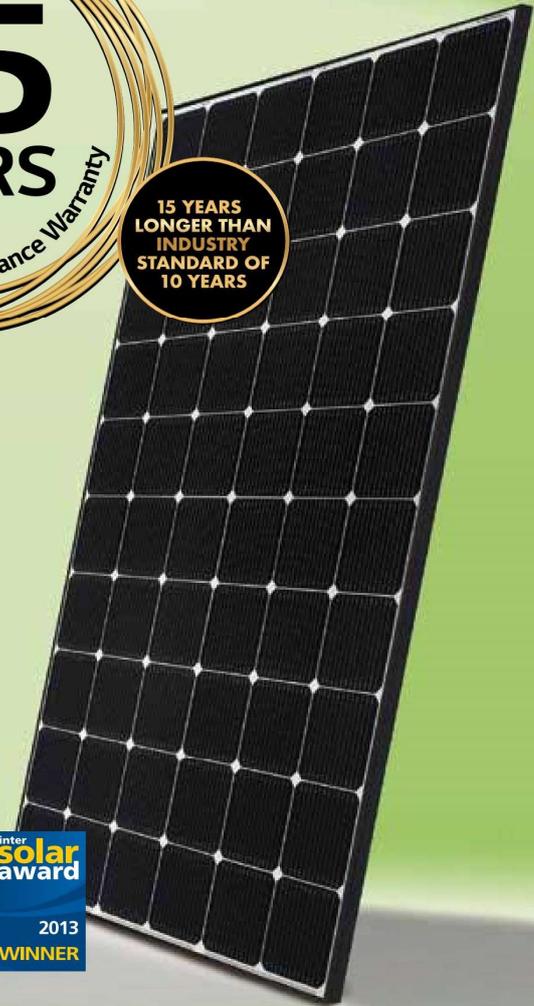
Choosing Trina solar is an affordable option will offer a faster payback period as the panels are cost effective upfront but they do only offer a 10-year product warranty with a 25-year performance warranty.

### Panel Comparisons

			
Part Number	LGNEON2 350N1C-V5 Page 4	Q. PEAK DUO- G5+ 330 Page 5	DD06M.08(II) 330 Page 7
Made	Korea	Korea	China
Product warranty	25 years	25 years	10 years
Performance warranty	25 years	25 years	25 years
Performance of nominal power first year	98%	98%	97.5%
Performance of nominal power after 25 years	90.08%	85%	83.1%



15 YEARS LONGER THAN INDUSTRY STANDARD OF 10 YEARS



# LG NeON<sup>®</sup> 2

LG350/355N1C-V5

THE HIGH PERFORMER

UP TO 20.7% MODULE EFFICIENCY

## Awards Received By LG Solar™



## THE NeON<sup>®</sup> 2 - 355W - THE PANEL OF THE FUTURE AVAILABLE TODAY

The LG NeON<sup>®</sup> 2 has seen many improvements, from longer warranties to lower degradation. This panel is ideal for homes seeking a visually pleasing solar panel and for roofs where space is tight or where future system expansions are considered e.g. to incorporate battery storage.

The LG NeON<sup>®</sup> 2 panels with their double sided cells and CELLO technology absorb light from the front and the back of the cell. This technology sets a new standard for innovation and was recognised with the 2015 Photovoltaic Innovation Award at the Intersolar Industry Event in Germany. LG also won the 2016 Intersolar award for our new NeON BiFacial range.



### Great Visual Appearance

LG NeON<sup>®</sup> 2 panels have been designed with appearance in mind. Their black cells, black frames and thinner wire busbars give an aesthetically pleasing uniform black appearance. Your home deserves the LG NeON<sup>®</sup> 2.



### 25 Years Product Warranty (Parts & Labour)

The LG product warranty is 15 years longer than many competitors standard 10 years. The Warranty is provided by LG Electronics Australia and New Zealand. The warranty includes replacement, labour and transport.



### More Power per Square Metre

LG NeON<sup>®</sup> 2's 355W are a similar physical size to many competing 300W panels. This means with the LG NeON<sup>®</sup> 2 355W you get 18% more electricity per square metre than a 300W panel. So you can install more kW of solar on your roof with the LG NeON<sup>®</sup> 2.



### Improved 25 Year Performance Warranty

The initial degradation of the module has been improved from -3% to -2%, in the 1st year and the annual rate of degradation has fallen from -0.7%/year to -0.33%/ year thereafter. This brings an 90.08% warranted output after 25 years, compared to 80.2% for many competing panels.

Made in Korea

Call LG Solar on 1300 152 179

[www.lgenergy.com.au](http://www.lgenergy.com.au)

powered by  
**Q.ANTUM DUO**

# Q.PEAK DUO-G5+ 315-335

AWARD-WINNING  
HIGH PERFORMANCE



**Solar+Power** award winner



#### Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.2%.



#### INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



#### ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



#### EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



#### A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>2</sup>.



#### STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

powered by

**Q.ANTUM DUO**

# Q.PEAK DUO-G6+

## 345-355

ENDURING HIGH PERFORMANCE



www.VDEinfo.com  
ID. 40032587



**Q CELLS**  
YIELD SECURITY



### Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.1%.



### INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



### ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



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Inclusive 25-year product warranty and 25-year linear performance warranty<sup>2</sup>.



### STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

# THE Honey<sup>M</sup>

## FRAMED 60 LAYOUT MODULE



### 60 LAYOUT MONOCRYSTALLINE MODULE

### 325-340W POWER OUTPUT RANGE

### 19.9% MAXIMUM EFFICIENCY

### 0~+5W POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world. We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

#### Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716  
 ISO 9001: Quality Management System  
 ISO 14001: Environmental Management System  
 ISO14064: Greenhouse Gases Emissions Verification  
 OHSAS 18001: Occupation Health and Safety Management System



Product: DD06M.08(II)  
 Color of BS: White  
 Power Range: 325 - 340W



#### High power mono per cell

- Up to 340W front power and 19.9% module efficiency with half-cut and MBB (Multi Busbar) technology bringing more BOS savings
- Lower resistance of half-cut and good reflection effect of MBB ensure high power



#### High reliability

- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Certified to 5400 Pa positive load and 2400 Pa negative load



#### High energy generation

- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Lower temp coefficient (-0.36%) and NMOT bring more energy leading to lower LCOE
- Better anti-shading performance and lower operating temperature



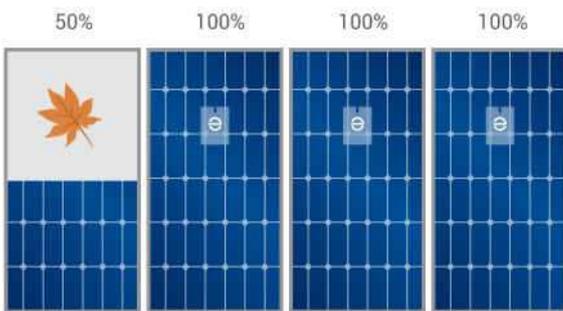
## **INVERTER SELCTION**

When it comes to inverter selection for your project Mifsud Electrical and Solar want to ensure that with your installation you are getting the full benefits out of your investment, That's the reason why we stick with using higher end inverters so that you can maximise your performance of you solar install. We commonly stick with Fronius for a string inverter and enphase for our micro inverter system.

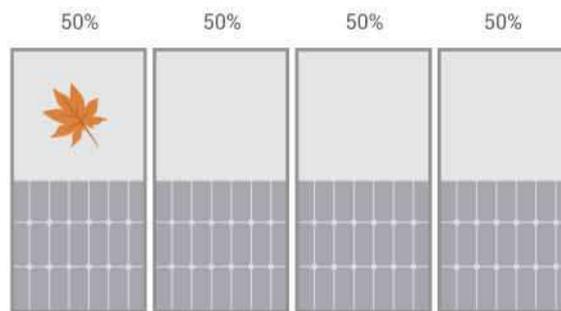
### **How Inverters work**

An inverter converts the DC current made by the solar panels into the AC current that is needed for your home. There are two types of inverter systems to choose from and which is a string inverter and a micro inverter system these are designed to suit different applications.

#### **Micro Inverters**



#### **String inverters**



### **Micro inverters**

Is an inverter which is positioned behind every panel this system is great for applications which have shading. They are the best inverter as they maximise the full potential out of every panel which would mean you get the best performance out of your solar array. Image on the left shows an example of half of one panel being shaded and working at 50% but due to the micro inverter system other panels still perform at 100%.

### **String inverter**

Is one inverter that is situated most commonly in residential installations located in garages or adjacent to switchboards. This system can only perform at its lowest operating panel as on image on the right where all panels are operating at 50%. If you don't have shading issues or any obstructions these inverters will work at their full potential.



## String Inverters



Fronius snap inverters are an Austrian made inverter and have a range of single phase and three phase inverters to suit your solar application. Please see pointers below on Fronius Inverters.

- Austrian made Inverter
- Fronius come with a 5 plus 5-year warranty when registered,
- Fronius make single phase or three phase inverters.
- Online monitoring system via downloading an application on your phone or by solar web which is user friendly and can keep you up to date on how your solar is performing from days, months to yearly production.
- Fronius also has a range of accessories in which can be added to advance consumers knowledge.
- Can be suited for indoor or outdoor applications
- Most Fronius inverters have dual Input so you can maximise your solar array potential this is great for any solar set up but especially if you have a North facing string and West facing string.

When selecting inverters Fronius have a wide range to suit your solar needs and are a great way to maximise your solar performance.



## MICRO INVERTERS



ENPHASE Micro inverters are an made inverter and are suited for both single phase and three phase applications. Enphase microinverters are a great way to maximise the potential out of your solar performance. Please see pointers below

- Enphase have a 10-year Warranty
- Suits Single phase or three phase applications
- Inverters operate independently so each panel performs to its fullest potential
- If one panels happens to fail or be shaded it wont effect the rest of the system
- Great for areas with shading or obstructions
- Easy to expand on at later date
- Comes with CT metering to measure how much power consumed
- Safer as there is not high DC current and voltages running through the house.
- All information can be tracked through the Enlighten application, which will inform you of how much power the solar produced, how well each panel is performing and how much energy being consumed.



## Prices and packages 5.2KW (Corrugated roof)



### Package 1 - 5.25kw

LG NEON2 350NIC-V5 with Fronius Primo 5KW Inverter

DESCRIPTION	TOTAL Inc GST
- 15 x LG NEON2 350NIC-V5 - 1 X Fronius Primo 5kw inverter (5 plus 5-year warranty when registered)	\$9,730
STCs - This size system generated 79 certificates at \$37	\$-2,923
<b>Total</b>	<b>\$6,807.5</b>



### Package 2 - 5.28kw

QCELLS.Q PEAK DUO-G5+ 330W with Fronius Primo 5KW Inverter

DESCRIPTION	TOTAL Inc GST
- 16 x QCELLS.Q PEAK DUO-G5+ 330W - 1 X Fronius Primo 5kw inverter (5 plus 5-year warranty when registered)	\$8,320
STCs - This size system generated 80 certificates at \$37	\$-2,960
<b>Total</b>	<b>\$5,360</b>



### Package 3 - 5.28kw

Trina DD06M.08+ 330W with Fronius Primo 5KW Inverter

DESCRIPTION	TOTAL Inc GST
- 16 x Trina DD06M.08+ 330W - 1 X Fronius Primo 5kw inverter (5 plus 5-year warranty when registered)	\$7,260
STCs - This size system generated 80 certificates at \$37	\$-2,960
<b>Total</b>	<b>\$4,300</b>

## Prices and packages 6.6KW (Corrugated roof)



### Package 4 – 6.65KW

LG NEON2 350NIC-V5 with Fronius Primo 5KW Inverter

DESCRIPTION	TOTAL Inc GST
- 19 x LG NEON2 350NIC-V5 - 1 X Fronius Primo 5kw inverter (5 plus 5-year warranty when registered)	\$11,900
STCs - This size system generated 101 certificates at \$37	\$-3,737
<b>Total</b>	<b>\$8,163</b>



### Package 5 – 6.6kw

QCELLS.Q PEAK DUO-G5+ 330W with Fronius Primo 5KW Inverter

DESCRIPTION	TOTAL Inc GST
- 20 x QCELLS.Q PEAK DUO-G5+ 330W - 1 X Fronius Primo 5kw inverter (5 plus 5-year warranty when registered)	\$10,050
STCs - This size system generated 100 certificates at \$37	\$-3,700
<b>Total</b>	<b>\$6,350</b>



### Package 3 – 6.6kw

Trina DD06M.08+ 330W with Fronius Primo 5KW Inverter

DESCRIPTION	TOTAL Inc GST
- 20 x Trina DD06M.08+ 330W - 1 X Fronius Primo 5kw inverter (5 plus 5-year warranty when registered)	\$8,750
STCs - This size system generated 100 certificates at \$37	\$-3,700
<b>Total</b>	<b>\$5,050</b>



## Your Solar Proposal - 6.6kW

**PREPARED FOR:**

Mr John Smith

**Address:**

Unknown

**PREPARED BY:**

Jimmy Mifsud

**Phone:**

0422650444

Email: jimmy@mifsudelectrical.com.au

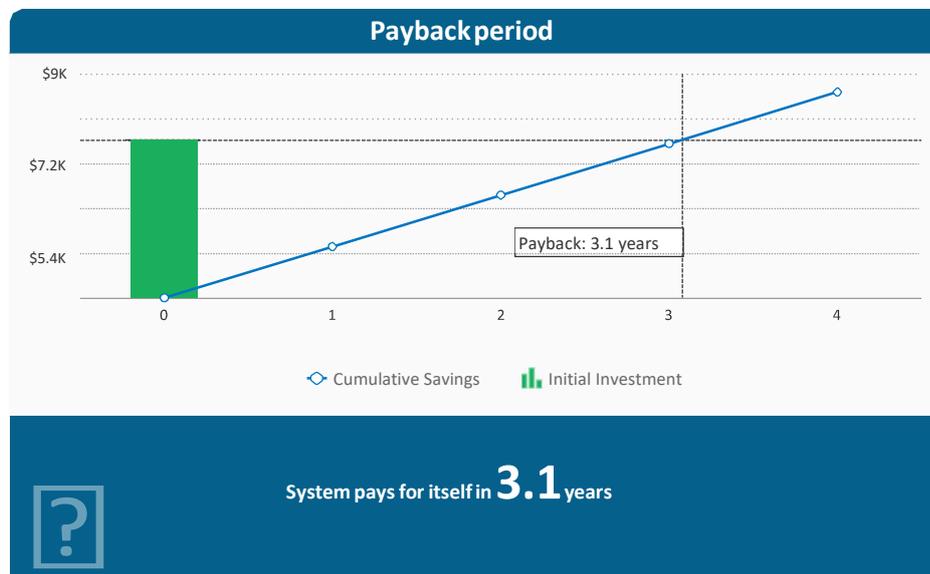


Your investment **\$6,350** Inc GST

delivers an ROI of **32.4%**

Pays for itself in **3.1** years

After 25 years **\$47,606** ahead



## **Prices and packages**

Please note the following;

- Prices and packages are a guideline and may vary due to site conditions, STC discount at present is \$37 per certificate this may change on installation as this rate changes over time.
- When installing solar on a residential premise due to endeavour energy restrictions on single phase supply we are only allowed to connect a 6.6kw or 6.65kw system with a 5kw inverter.  
If, however you have three phase power we are able to connect up to 30kw of solar.
- If you have a roof tile house additional \$200 Plus Gst to be added.
- All systems above 6.6kw to be priced with site details.

## **Where too from now?**

Hope you have gained a knowledge and understanding of what we have to offer if you would like a site-specific quotation, we are more than happy to provide that for you.

Please send us an email with the following details and we can provide you with a solar proposal for you.

## **Mifsud electrical and solar details**

- Jimmy Mifsud
- Email address: [Solar@mifsudelectrical.com.au](mailto:Solar@mifsudelectrical.com.au)
- Phone: 0422 650 444

## **Details needed**

- Name
- Address
- Contact details
- Size system your enquiring for
- Electricity bill



## **Maximise your solar benefits**

### **1. Changing your energy usage Plan**

Plan to try and use your power during the day when your solar is producing power for example washing machine, cooking appliances, cooling and heating electric appliances.

### **2. Increase export rates**

Approach your Energy Retailer for a better deal on your solar export rate.

### **3. Maintenance**

General maintenance checks either twice or once a year is recommended to ensure system is operating at its full potential.

### **4. System Monitoring**

Whether it be on the on system monitoring that you have purchased, or routine checks on the inverter for energy consumption you can help detect if something is out of the ordinary before recognising this on your electricity bill.

