

Quotation

LG320N1K-A5

LG 320W Mono Neon2 Black A5

Rating	320 W
VMPP	33.3 V
Voc	40.8 V
Horizontal	1016 mm
Vertical	1686 mm
Type	Monocrystalline
Connection	MC4



SOL-3.0-4G-DT

Solis 3.0kW 4G Dual MPPT - Single Phase

Rating	3000
Min PP	100 V
Max PP	500 V
Max DC	600 V
Connection	MC4 Compatible



DNLS10MB

Dektite Lead Multicable Solar Flashing (Tiled or Slate)

Box Width	280 mm
Box Length	520 mm
Box Height	60 mm



REN-420081-B

End Clamp+ 30 - 50mm Black



REN-420082-B

Middle Clamp+ 31 - 51mm Black



REN-900305-21

Wood screw pan head 6 x 80 (Bag of 21) (900305-21)



REN-420180

Roof hook UK Pantile (without wood screw)



REN-920044

VarioSole End Cap RIGHT/LEFT 50mm grey (1 pair)



REN-400532

VarioSole+ Rail connector for rail 50 x 37 mm



REN-400505

VarioSole+ mounting rail 50 x 37 x 4200mm



REN-400502

VarioSole+ Mounting rail 50 x 37 x 3200mm

**MC4-CONN-2PACK**

MC4 Connector Twin Pack (Kit 1)

**CABLE4-1-50**

4mm2 single-core DC cable 50m - Black

Length	50 mm
Area	4 mm ²
Cores	1
Colour	Black

**KG20-T203-GBA294**

K&N Single Phase AC Switch Disconnecter 25A

Battery Switch	No
Poles	2
Max Voltage	690 V
Max Cable	10 mm
Rated Current	25 A
Rated Voltage	230 V

**KG20-T104GB**

K&N Dual String DC Switch Disconnecter 25A 220V - 11A

460V (per string)

Battery Switch	No
Poles	4
Max Voltage	460 V
Max Cable	6 mm

**RAY-COVER**

Rayleigh 1-ph meter extended cover



RIHXE12R

Rayleigh 1-ph generation meter 100A (1000 pulse/kWh)



BOHAZARD-SET

PV on Roof and Hazard Labels Pack



Quotation

Major System Components

Array



LG 320W Monocrystalline

Total:£1,744.40

Mounting



Renusol on roof (VarioSole)

Total:£291.81

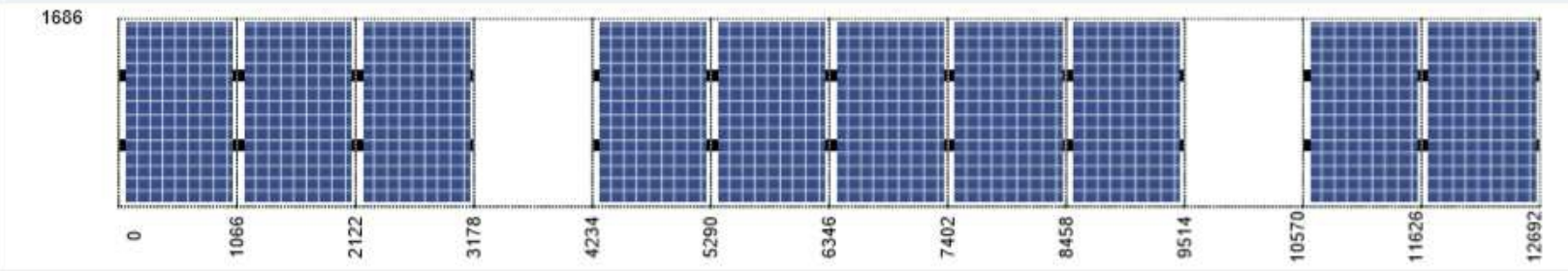
Electrical



Solis 3000W 1 Phase

Total:£392.82

Array Design



System Summary

Physical

Roof	
Orientation	0°
Pitch	35°
Location	
Region	East Anglia
Array	
Width	12.00 m
Height	1.00 m
Surface Area	21.40 m ²
Weight	223.74 kg
WeightM2	10.46 kg

Panel - LG 320W Mono Neon2 Black A5

Panel Specifications	
Number required	10
Rating	320 Wp
Length	1,686 mm
Width	1,016 mm
Voc at STC	40.8 V
Vmpp at STC	33.3 V
Imp at STC	9.62 A
Array Specifications	
Array Power	3,200 Wp

Inverter - Solis 3.0kW 4G Dual MPPT - Single Phase

Phases	1
No. of MPPT	2
Rated AC Power	3,000 W
Max DC	
Current	22.00 A
Voltage	600 V
PP Voltage	
Min	100 V
Max	500 V

Electrical - Solis 3.0kW 4G Dual MPPT - Single Phase

Quantity	1
String Quantity	2
Strings	1 * (1x5 / 1x5)
String Voc at +80C	173.71 / 173.71 V
String Voc at -15C	226.03 / 226.03 V
String Vmpp at +60°C	144.94 / 144.94 V
String Vmpp at +-5°C	184.98 / 184.98 V
Input Imp at +25C	9.62 / 9.62 A
Distance to Array	12 m
Cable Area	4 mm ²
Voltage Drop	0.93 %

PV Performance Estimation

A. Installation Data - New MCS Calculation

Installed capacity of PV system - kWp (stc)	3.200 kWp
Orientation of the PV system - degrees from South	0°
Inclination of system - degrees from horizontal	35°
Postcode region	12

B. Calculation

kWh/kWp (KK) from table	961 kWh/kWp
Shade factor (SF)	1.00
Estimated annual output (kWp x KK x SF)	3,075 kWh

MCS Wind Loading Calculation

Wind Zone:	1-TQ
Peak Pressure:	627 Pa
Altitude Correction Factor:	None
Topography Correction Factor:	None
Peak Velocity Pressure:	627 Pa
Pressure Coefficient:	-0.5
Wind Pressure:	-423 Pa

Snow Loading Calculation

Snow Load:	500 Pa
Altitude Correction:	None
Pitch Adjustment:	0.800
Adjusted Snow Load:	400 Pa

This calculation excludes an additional safety factor.