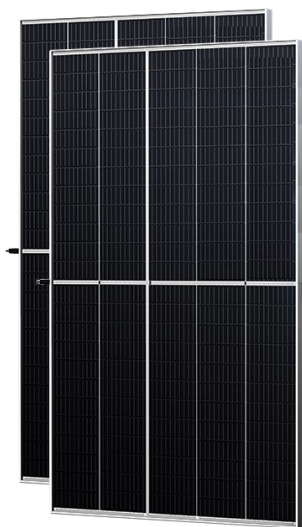# PK19.11

11.0 KW Solar Array & MPPT Package: *PV + MPPT + Racking + BOS*

Solar Array + Solar MPPT Package

Item	Spec.	Details
Array Size:	11.0 KW	Panel Qty x Panel Wattage
Solar Panels:	22 x 500W	Trina Solar Panels (CEC^)
MPPT:	450/200	Victron Smartsolar MPPT
MPPT MaxW:	11520	W Max MPPT O/put@48V.batt
Max PV W:	15321.6	X 1.33 = Max. W @48V.batt
Array Type:	DC.Coupled	DC Coupled direct to Battery
Strings/Panels:	3 / 8 &7 &7	#Strings / #Panels per String
String VOC.dc:	413.6 &361.9 &361.9	V dc String voltage
ELV/LV Array:	LV *	NOT Self-installable *

MAX ARRAY
X 1.33
MAX MPPT OUTPUT: 11.5 KW

RACKING:
- Racking Brackets, earth clips & lugs
- Solar cable clips & s/s cable ties

BALANCE OF SYSTEM:
- MPPT & Solar Cables with MC4's
- Solar Conduit with saddles
- Optional roof-penetration seal
- Label Kit & Install Instructions

500W Modules x 22	**450/200 MPPT** x 1	**Racking: for 22 Panels**	**Isolator + Extras**

Item	Specification
Solar Module Power Output:	500W
Solar Module Voltage VOC	51.7V dc
Solar Module Short Circuit A:	12.28
Solar Module Dimensions:	2176 x 1098 x 35mm
Rail Length:	4.6m
Solar Racking Roof Type:	Metal/Tin Roof
Array DC Isolator:	32A / 4 Pole Rotary
Solar Cable:	4mm^2 twin, Approved type
Solar Cable Connectors:	MC4

Warranties & Terms

- Solar Module Warranty: 12 Yr Product, 25 Yr Performance or per Manuf. Warranty
- Victron Equipment: 5 years standard (Extendable)
- Clenergy Racking: 25 years; Other components: See Manuf. Warranty
- System wiring and details should comply with the following Australian standards:
  > Optional roof-penetration seal
  > AS3000 Electrical Installations OR AS3001 Electrical Installations, Transportable
  > AS4509 Stand-alone power systems & AS5139 Battery Installations
  > AS5033 Installation of Photovoltaic Arrays
  > Any other applicable standards, statutory rules or guides
- System wiring should be checked and/or installed by a qualified person, ELV wiring should be completed by a competent person. LV Electrical work, including solar arrays above 120Vdc is NOT DIY, and should be completed by a qualified electrician. Check laws in your state.   Comply with safe work rules in your area, eg working at heights.
- For installations which are not compliant, ecoCool disclaims responsibility for any loss or damage, where those rules are not complied with in full and directly.

Information accurate at time of publication, subject to change.

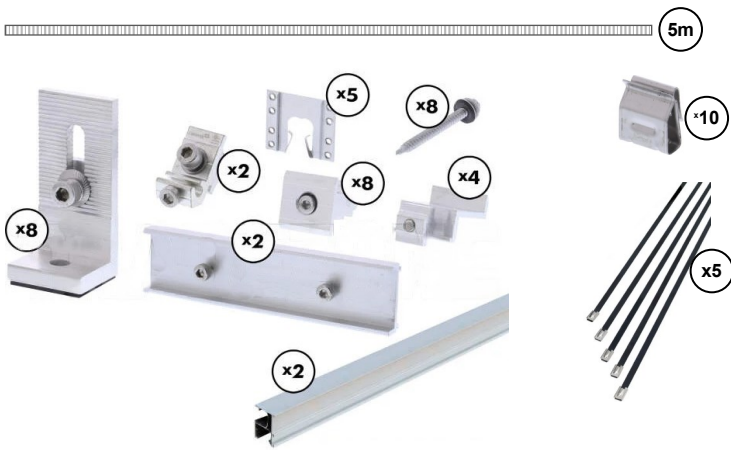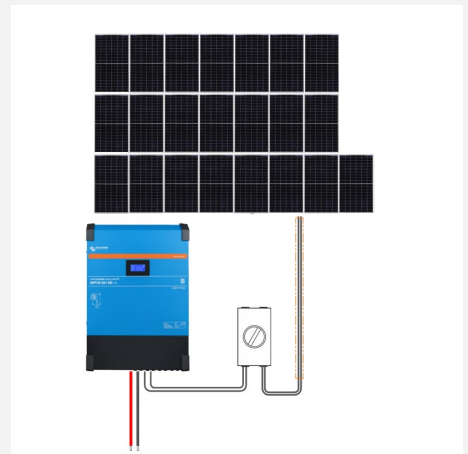ecoCool Pty Ltd
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Sustainable Revolution

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Bill of Materials PK19.11

Description	Total
Solar Modules	22
Solar MPPT Charger1	1
Solar MPPT Charger2	
MPPT-Batt Cable Set	1
Racking Kits (4 Mod.)	5.5
Isolators	1
Isol-MPPT Cables	1
Solar Cables (Array)	1
Label Kits	1
Conduit-5m/Solar.Cab-6m	1
Racking	
Rails 4.6m	3
Mtg Bkts & Roof Screws	12
Panel End clamps	4
Mid-clamps	12
Splices	3
Earthing lugs	2
Earthing clips	7
Solar cable clips	49
Cable ties	25
Conduit Saddles, Gal	5
Glands, Solar	10

5m

×8 ×2 ×2 ×2 ×5 ×8 ×8 ×4 ×10 ×5

Racking kits   x 6

PK19.11

Extra Parts:
> buy extra racking brackets or parts as required (e.g. Roof bkts)
Optional Parts:
> Metal Roof Sealing Boot
> Extra solar 25mm conduit
> Extra brackets roof mounting brackets for very windy zones

Tools you Need for installation:
+ Drill/Driver & Driver Bits
+ Grinder with cut-off wheel
+ Allen keys or Hex Driver
+ Side cutters, Pliers, screw-drivers. Tape Measure
+ Multi-Meter, Ladder/Heights gear