



**Australian Government**  
**Australian Customs and**  
**Border Protection Service**

**APPLICATION FOR TARIFF**  
**CONCESSION ORDER (TCO)**

**IMPORTANT: Please read the information below carefully before completing this form.**

**Are you aware that substitutable goods are produced in Australia in the ordinary course of business?**

- (a) If you are aware, based on information and your inquiries that substitutable goods are being produced in Australia in the ordinary course of business then you should not lodge an application for a TCO.

**Do you need to apply for new TCO?**

- (b) Before lodging this application for a TCO, the applicant should determine whether a suitable TCO already exists. Information on existing TCOs is contained in the Schedule of Concessional Instruments (SCI), which is available on the Internet at [www.customs.gov.au](http://www.customs.gov.au).

**Have you verified that there are no substitutable goods produced in Australia (refer to questions 5, 6 and 7 of the form)?**

- (c) Section 269FA of the *Customs Act 1901* states "It is the responsibility of an applicant for a TCO to establish, to the satisfaction of the Chief Executive Officer (CEO), that, on the basis of:
- (i) all information that the applicant has, or can reasonably be expected to have; and
  - (ii) all inquiries that the applicant has made, or can reasonably be expected to make;
- there are reasonable grounds for asserting that the application meets the core criteria"  
 The application is taken to meet the core criteria if, on the day of lodgement of the application, **no substitutable goods** were produced in Australia in the ordinary course of business.

**Completing the application**

- (d) Section 269F of the *Customs Act 1901* requires that a TCO application be in writing, be in an "approved form", contain such information as the form requires, and be signed in the manner indicated in the form. **This is the approved form for the purposes of that section.**
- (e) Section 269F(3) states that a TCO application must contain:
- (a) a full description of the goods to which the application relates; and
  - (b) a statement of the tariff classification that, in the opinion of the applicant, applies to the goods; and
  - (c) if the applicant is not proposing to make use of the TCO to import the goods to which the application relates into Australia on the applicant's own behalf – the identity of the importer for whom the applicant is acting; and
  - (d) particulars of all inquiries made by the applicant (including inquiries made of prescribed organisations) to assist in establishing that there were reasonable grounds for believing that on the day on which the application was lodged, there were no producers in Australia of substitutable goods.

**Question 1 to 8 must be answered**

- (f) Failure to supply the information required by this form will result in rejection of the application (and in the loss of operative date.)
- (g) Customs and Border Protection may require an applicant to substantiate, with documentary evidence, any information provided in the application form. Customs and Border Protection may also undertake its own inquiries as allowed under section 269M.
- (h) Receipt of your application will be acknowledged. Any resultant TCO will operate from the date of receipt.
- (i) Where an application is accepted as being a valid application, the identity of the applicant and of the importer for whom the applicant is acting will be published in the *Commonwealth of Australia Tariff Concessions Gazette* (the Gazette).
- (j) Further Information on the Tariff Concession System is available in Part XVA of the *Customs Act 1901*; in relevant Australian Customs Notices (ACNs), Practice Statements and related Instructions and Guidelines on the Internet at [www.customs.gov.au](http://www.customs.gov.au); by e-mailing [tarcon@customs.gov.au](mailto:tarcon@customs.gov.au); or by phoning the Customs and Border Protection Information Centre 1300 363 263.
- (k) Attached to this form are extracts from relevant legislation. Also please refer to Australian Customs Notice 2010/03 containing advice as to what Customs and Border Protection considers to be 'reasonable inquiries', advice on conducting searches on national and international search engines and a suggested format letter that you might choose to use when contacting potential local manufacturers to determine if it produces substitutable goods.

**APPLICANT DETAILS**

Applicant's Name: Electricity Generation Corporation Trading as Verve Energy	Australian Business Number (A.B.N): 58 673 830 106
Postal Address: GPO Box F366, Perth, Western Australia 6841	
Applicant's Reference:	Company Contact: s47F
Telephone Number: s47F	Position Held: s47F
Mobile Telephone Number:	Email Address: s47F@verveenergy.com.au
Facsimile Number: 08 93358488	

**If the applicant (as named above) does not intend to use the TCO to import into Australia the goods the subject of the application, you must provide, in the section below, the identity of the importer for whom you are acting (refer to paragraph 296F(3)(c) of the Customs Act 1901.**

**IMPORTER DETAILS**

If same as applicant write "as above" Importer's Name: "As Above"	Australian Business Number (A.B.N):
Postal Address:	
Importer's Reference:	Company Contact:
Telephone Number:	Position Held:
Mobile Telephone Number:	Email Address:
Facsimile Number:	

**AGENT/BROKER DETAILS (if applicable)**

Agent's Name: s47F	Australian Business Number (A.B.N): 47489080995
Postal Address: 2 Pier Street, East Fremantle, WA 6158	
Agent's Reference:	Agency Contact: s47F
Telephone Number: s47F	Position Held: s47F
Mobile Telephone Number: s47F	Email Address: s47F@ozemail.com.au
Facsimile Number: 08 93392944	

Is this application intended to support an application for a concession under the Enhanced Project By-law Scheme?

YES  NO

**1. DESCRIPTION OF GOODS**

- (a) The description of the goods in the application may be used as the description of the goods in the TCO (if made).
- (b) The application must provide a full description of the goods, including the physical features of the various components of the goods. It must not describe the goods in terms of what they do.
- (c) In accordance with section 269SJ of the Customs Act 1901, the CEO must **not** make a TCO in respect of goods:
- (i) described in terms other than in generic terms; or
  - (ii) described in terms of their intended end use; or
  - (iii) declared by the regulations to be goods to which a TCO should not be extended.
- Goods will be taken to be described in terms other than in generic terms if, for example, their description, either directly or by implication, indicates that they are goods of a particular brand or model, or that a particular part number applies to the goods.
- (d) Guidance on the drafting of the description of goods is contained in relevant Practice Statements and/or Instructions and Guidelines on the Internet at [www.customs.gov.au](http://www.customs.gov.au). Failure to comply with Customs and Border Protection requirements may result in rejection of the application.

Describe the goods as you would propose the wording to appear if the Tariff Concession Order is granted.

Inverters, mains solar power plant: (a) capable of varying their power factor between +/-0.90pf, (b) nominal output over 700 kVA AC  
(c) Maximum power input over 800kW

**2. ILLUSTRATIVE MATERIAL**

**Attach technical and illustrative descriptive material (IDM) as well as any extracts from the relevant industry standard (if referred to in the description of the goods) and/or a sample to enable full and accurate identification of the goods the subject of the application. This application will be rejected if insufficient or inadequate IDM is provided.**

*Please note that simply supplying a reference to a website is not acceptable.*

**3. TARIFF CLASSIFICATION**

- (a) Identify the tariff classification (to 8 figure subheading level)
- (b) Identify the General Duty rate 5 %
- (c) If a Tariff Advice for the goods has been sought or obtained, please provide the TA No or attach a copy.

**4. USES OF THE IMPORTED GOODS**

Describe ALL uses (including design uses) to which the goods can be put.

Producing usable AC power from photovoltaic power source for mains grid applications

**5. Information that the applicant and importer has regarding Australian manufacturers of substitutable goods or potentially substitutable goods.**

The following questions require the applicant and the importer (if a different party to the applicant) to provide details of all information that they have with regard to the presence of Australian manufacturers of substitutable goods or potentially substitutable goods.

**5A APPLICANT.**

In considering the goods which are the subject of this TCO application, is the applicant aware of any Australian manufacturers or producers of substitutable goods, or of potentially substitutable goods?

YES  NO If YES, please provide the names of these Australian manufacturers or producers

**5B - IMPORTER.**

In considering the goods which are the subject of this TCO application, is the importer (as listed on page 2) aware of any Australian manufacturers or producers of substitutable goods or potentially substitutable goods?

YES   NO If YES, please provide the names of these Australian manufacturers or producers.

**5C. Please provide details of other information that the applicant and/or importer may have to assist in locating any local manufacturers.**

(i) Is the applicant and/or importer a member of a relevant industry association and, if so, what is the name of the association?

YES  NO

If YES, what is the name of association/s:

(ii) Has the applicant and/or importer attended, in the past year, any trade fairs or industry events where Australian manufacturers and producers of goods that may be substitutable have been exhibitors?

YES  NO

If YES, what is/are the name/s of relevant Australian manufacturers of potentially substitutable goods that may have exhibited?

(iii) In the past two years, has the applicant and/or importer participated in government and/or trade procurement processes (for example, tenders for made-to-order capital equipment) which might indicate the existence of Australian manufacturers or producers of goods that are substitutable, or potentially substitutable, for the goods that are the subject of this TCO application?

YES  NO

If YES, describe each procurement process, and type of goods, including made-to-order capital goods, that were the subject of each procurement process and any Australian manufacturers or producers known to have participated in each procurement process?

Recent tenders for solar plant, wind farm technology and associated equipment. No know suppliers of equipment within

Australia. Letter from independent procurement engineers attached as part of validation.

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**6. INQUIRIES THAT THE APPLICANT AND/OR IMPORTER HAS MADE REGARDING LOCAL MANUFACTURERS OF SUBSTITUTABLE GOODS, OR OF POTENTIALLY SUBSTITUTABLE GOODS?**

The following questions require you to provide details of all inquiries that the applicant and/or importer have made to assist the CEO in establishing that there are reasonable grounds for believing that, on the day on which the application was lodged, there were no producers or manufacturers in Australia of substitutable goods, or potentially substitutable goods.

**6A - PRESCRIBED ORGANISATIONS - Prescribed organisations, such as the Industry Capability Network, are listed in Regulation 179A of Customs Regulations 1926.**

**Have you asked a prescribed organisation to obtain advice about whether there are manufacturers or producers in Australia of substitutable goods, or of potentially substitutable goods?**

- YES Please attach a copy of the terms of the request and all advice received. If you have obtained a report from a prescribed organisation, you are not required to answer 6B.
- NO If you have not obtained a report from a prescribed organisation, you are required to answer 6B.

**6B. SEARCHES OF THREE DIFFERENT DATABASES CONTAINED IN TRADE DIRECTORIES, PUBLIC SEARCH ENGINES OR WEBSITES LISTING AUSTRALIAN PRODUCTS**

If you have not obtained a report from a prescribed organisation, you must make inquiries in at least three databases to locate the possible existence of Australian manufacturers or producers of goods that may be substitutable for the goods the subject of the TCO application. Examples of these databases may include trade directories such as Kompass, search engines such as Google, and websites listing Australian products such as [www.australianmade.com.au](http://www.australianmade.com.au). Please refer to ACN 2010/03 for guidance as to what Customs and Border Protection considers to be a reasonable search.

**1 - Name of database:** Kompass (via B2B in JPM Media)

Search terms used in database: inverters

Please attach printouts of the search results. For search engines such as Google, please supply only the first three pages.

**2 - Name of database:** Google

Search terms used in database: inverter manufacturers

Please attach printouts of the search results. For search engines such as Google, please supply only the first three pages.

**3 - Name of database:** Australian Manufacturers guide

Search terms used in database: inverters

Please attach printouts of the search results. For search engines such as Google, please supply only the first three pages.

**6C. INDUSTRY ASSOCIATIONS**

**Has the applicant and/or importer made inquiries of industry associations in Australia representing suppliers, manufacturers of the goods that may be substitutable to those the subject of the TCO?**

- YES Please attach a copy of the terms of the request and any response received.
- NO Please explain why you have not made enquiries.

Verve Energy has been participating in a procurement process with experienced engineers and independent consultants for the past 18 months. The consultants have informed Verve and Verve engineers are aware of the lack of capacity to provide the PV solar equipment within Australia. See attached statement from independent engineers.

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**7. NOTIFICATION OF POTENTIAL AUSTRALIAN MANUFACTURERS**

If any of the answers to questions 5 or 6 identified any potential local manufacturers of substitutable goods, please provide details of the inquiries that you undertook to notify those local manufacturers of your application and to seek advice as to whether they believe they manufacture any substitutable goods. Please refer to Australian Customs Notice 2010/03 for a suggested format of a letter to a potential local manufacturer of substitutable goods.

*Please provide a copy of your request to each business. Please provide the business names, details of the contact that you made and all responses received at the time of lodging this application.*

**1 - Name and address of business:**

Please provide a copy of your request to each business. Is the copy attached?  YES  NO

Please provide a copy of the response provided, if any. Is their response attached?  YES  NO

**2 - Name and address of business:**

Please provide a copy of your request to each business. Is the copy attached?  YES  NO

Please provide a copy of the response provided, if any. Is their response attached?  YES  NO

**3 - Name and address of business:**

Please provide a copy of your request to each business. Is the copy attached?  YES  NO

Please provide a copy of the response provided, if any. Is their response attached?  YES  NO

**4 - Name and address of business:**

Please provide a copy of your request to each business. Is the copy attached?  YES  NO

Please provide a copy of the response provided, if any. Is their response attached?  YES  NO

**8. JUSTIFICATION FOR APPLICATION**

Where potential Australian producers or manufacturers have been identified in questions 5, 6 or 7, please provide details as to why you believe that they do not produce substitutable goods in Australia in the ordinary course of business.

*Please refer to the attached definitions for the legislative definitions of 'core criteria', 'substitutable goods', 'goods produced in Australia' and 'the ordinary course of business'.*

Please see attached

**APPLICANT'S DECLARATION**

I, <sup>s47F</sup> [REDACTED]	Position Held <sup>s47F</sup> [REDACTED]
Company: (if applicable)	
declare that:	
<ol style="list-style-type: none"> <li>I have the authority to act on behalf of the company/applicant:</li> <li>To the best of my knowledge and belief the information contained in this form including any attachments is correct;</li> <li>I have ensured that questions 1 to 8 are completed and supporting documents are provided; and</li> <li>I agree, in submitting this form by electronic means (including facsimile) that, for the purposes of Sub-section 14(3) of the Electronic Transactions Act 1999, this application will be taken to have been lodged when it is first received by an officer of Customs and Border Protection, or if by e-mail to <a href="mailto:tarcon@customs.gov.au">tarcon@customs.gov.au</a>, when it is first accessed by an officer of Customs and Border Protection, as specified in Sub-Section 269F(4) of the Customs Act 1901.</li> <li>I have read the relevant Australian Customs Notice headed Applicant's Obligations in Making a TCO application and the definitions attached to this form and understand my obligations under Section 269FA with regard to the making and processing of Tariff Concession Order applications.</li> <li>I acknowledge that I understand that under Section 269M(6) of the <i>Customs Act 1901</i> that at any time during the period of 150 days from the gazettal day, the CEO may, for the purpose of dealing with a TCO application, and despite section 16 of the Customs Administration Act 1985, give a copy of all, or of a part, of the application to a prescribed organisation with a view to obtaining the advice of the organisation in relation to the question whether there are any producers in Australia of substitutable goods.</li> </ol>	
Signature of Applicant/Agent/Broker: <sup>s47F</sup> [REDACTED]	Date: 14 / 09 / 2011

**NOTE:**

**Section 234 of the Customs Act 1901 provides that it is an offence to make a statement to an officer that is false or misleading in a material particular.**

**Before lodging your form please ensure that you have attached the following:**

- Attached IDM/Samples?
- Attached Local Manufacturer search results?
- Application signed & dated?
- Questions 1-8 answered?
- All enquiries requested undertaken?

**When this form has been completed please lodge it with Customs and Border Protection by:**

•posting it by prepaid post to:

Director  
Tariff Concession Section  
Trade Services Branch  
Australian Customs and  
Border Protection Service,  
Customs House  
5 Constitution Avenue  
CANBERRA ACT 2601

OR

•delivering it to the ACT Regional Office located at:

Customs House, Canberra

OR

•sending it by facsimile to: (02) 6275 6376

OR

•e-mailing it to: [tarcon@customs.gov.au](mailto:tarcon@customs.gov.au)

**FOR OFFICE USE ONLY AUSTRALIAN CUSTOMS AND BORDER PROTECTION SERVICE STAFF****269(H) Screening the Application**

- Is the CEO satisfied that the application complies with Section 269F?  YES  NO
- Is the CEO satisfied that the applicant has discharged all responsibilities referred to in section 269FA?  YES  NO
- Is the CEO aware of any producer in Australia of substitutable goods?  YES  NO
- Are the goods on the Excluded Goods Schedule (Regulation 185)?  YES  NO
- Does a TCO already exist for these goods?  YES  NO

**Information for applicants - some useful definitions from the Customs Act 1901****269B Interpretation**

**substitutable goods**, in respect of goods the subject of a TCO application or of a TCO, means goods produced in Australia that are put, or are capable of being put, to a use that corresponds with a use (including a design use) to which the goods the subject of the application or of the TCO can be put.

- (3) In determining whether goods produced in Australia are put, or are capable of being put, to a use corresponding to a use to which goods the subject of a TCO, or of an application for a TCO, can be put, it is irrelevant whether or not the first mentioned goods compete with the second mentioned goods in any market.

**269C Interpretation - core criteria**

For the purposes of this Part, a TCO application is taken to meet the core criteria if, on the day on which the application was lodged, no substitutable goods were produced in Australia in the ordinary course of business.

**269D Interpretation - goods produced in Australia**

- (1) For the purposes of this Part, goods, other than unmanufactured raw products, are taken to be produced in Australia if:
- (a) the goods are wholly or partly manufactured in Australia; and
  - (b) not less than  $\frac{1}{4}$  of the factory or works costs of the goods is represented by the sum of:
    - (i) the value of Australian labour; and
    - (ii) the value of Australian materials; and
    - (iii) the factory overhead expenses incurred in Australia in respect of the goods.
- (2) For the purposes of this Part, goods are to be taken to have been partly manufactured in Australia if at least one substantial process in the manufacture of the goods was carried out in Australia.
- (3) Without limiting the meaning of the expression substantial process in the manufacture of the goods, any of the following operations or any combination of those operations does not constitute such a process:
- (a) operations to preserve goods during transportation or storage;
  - (b) operations to improve the packing or labelling or marketable quality of goods;
  - (c) operations to prepare goods for shipment;
  - (d) simple assembly operations;
  - (e) operations to mix goods where the resulting product does not have different properties from those of the goods that have been mixed.
- (4) For the purposes of this section, the CEO may, by instrument in writing published in the *Gazette*:
- (a) direct that the factory or works cost of goods is to be determined in a specified manner; and
  - (b) direct that the value of Australian labour, the value of Australian materials or the factory overhead expenses incurred in Australia in respect of goods is to be determined in a specified manner, and those directions have effect accordingly
- (5) The provisions of sections 48 (other than paragraphs (1)(a) and (b) and subsection (2)), 48A, 48B, 49A and 50 of the Acts *Interpretation Act 1901* apply in relation to directions given under subsection (4) as if:
- (a) references in those provisions to regulations were references to directions; and
  - (b) references in those provisions to the repeal of a regulation were references to the revocation of a direction.

**269E Interpretation - the ordinary course of business**

- (1) For the purposes of this Part, other than section 269Q, goods (other than made-to-order capital equipment) that are substitutable goods in relation to goods the subject of a TCO application are taken to be produced in Australia in the ordinary course of business if:
- (a) they have been produced in Australia in the 2 years before the application was lodged; or
  - (b) they have been produced, and are held in stock, in Australia; or
  - (c) they are produced in Australia on an intermittent basis and have been so produced in the 5 years before the application was lodged;
- and a producer in Australia is prepared to accept an order to supply them.
- (2) For the purposes of this Part, goods that:
- (a) are substitutable goods in relation to goods the subject of a TCO application; and
  - (b) are made to order capital equipment;
- are taken to be produced in Australia in the ordinary course of business if:
- (c) a producer in Australia:
    - (i) has made goods requiring the same labour skills, technology and design expertise as the substitutable goods in the 2 years before the application was lodged; and
    - (ii) could produce the substitutable goods with existing facilities; and
  - (d) the producer is prepared to accept an order to supply the substitutable goods.
- (3) In this section:
- made-to-order capital equipment** means a particular item of capital equipment:
- (a) that is made in Australia on a one-off basis to meet a specific order rather than being the subject of regular or intermittent production; and
  - (b) that is not produced in quantities indicative of a production run.



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# SUNNY CENTRAL

## 500CP / 630CP / 720CP / 760CP / 800CP

SC 500CP-10 / SC 630CP-10 / SC 720CP-10 / SC 760CP-10 / SC 800CP-10



### Economical

- Optiprotect for maximum plant availability
- Outdoor enclosure allows for direct field deployment

### Efficient

- Full nominal power at ambient temperatures up to 50 °C
- 10 % additional power for continuous operation at ambient temperatures up to 25 °C

### Flexible

- DC voltage range can be configured
- Optional: extended input voltage range up to 1 100 V

### Reliable

- Easy and safe installation due to separate connection area
- Powerful grid management functions (incl. LVRT)

## SUNNY CENTRAL

### 500CP / 630CP / 720CP / 760CP / 800CP

Cost-optimized performance of the utility class

The Sunny Central CP series and Optiprotect not only save you a great amount of money, but also time and effort: Optiprotect integrates the self-learning string failure detection in the inverter and centrally monitors up to 1600 module strings without requiring conventional communication wiring in the field. The self-learning monitoring system simplifies commissioning significantly. 32 motor-driven, adjustable DC inputs ensure maximum plant availability. And thanks to its compact and weather-proof enclosure, the inverters can be loaded and transported with ease and set up almost anywhere.

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# SUNNY CENTRAL

## 500CP / 630CP / 720CP / 760CP / 800CP

Technical Data	Sunny Central 500CP	Sunny Central 630CP
<b>Input (DC)</b>		
Max. DC power (@ cos φ=1)	560 kW	713 kW
Max. input voltage <sup>1)</sup>	1000 V / 1100 V optional	1000 V / 1100 V optional
MPP voltage range (@ 25 °C / @ 50° C at 50 Hz)	449 V - 820 V / 430 V - 820 V <sup>2)</sup>	529 V - 820 V / 500 V - 820 V <sup>2)</sup>
MPP voltage range (@ 25° C / @ 50° C at 60 Hz)	449 V - 820 V / 436 V - 820 V <sup>2)</sup>	529 V - 820 V / 505 V - 820 V <sup>2)</sup>
Rated input voltage	480 V	550 V
Max. input current	1250 A	1350 A
Minimum input voltage / $V_{MPP, min}$ at $I_{MPP} < I_{DC, max}$	429 V / 430 V	498 V / 500 V
Number of independent MPP inputs	1	1
Number of DC inputs	9 / 32 (Optiprotect)	9 / 32 (Optiprotect)
<b>Output (AC)</b>		
Rated power (@ 25 °C) / nominal AC power (@ 50 °C)	550 kVA / 500 kVA	700 kVA / 630 kVA
Nominal AC voltage / range	270 V / 243 V - 297 V	315 V / 284 V - 347 V
AC frequency / range	50 Hz, 60 Hz / 47 Hz ... 63 Hz	50 Hz, 60 Hz / 47 Hz ... 63 Hz
Rated frequency / rated voltage	50 Hz / 270 V	50 Hz / 315 V
Max. output current	1176 A	1283 A
Max. THD	< 3 %	< 3 %
Power factor at rated power / adjustable shift factor	1 / 0.9 leading ... 0.9 lagging	
Feed-in phases / connection phases	3 / 3	3 / 3
<b>Efficiency <sup>1)</sup></b>		
Max. efficiency / European efficiency / CEC efficiency	98.6 % / 98.4 % / 98.5 %	98.7 % / 98.5 % / 98.5 %
<b>Protection</b>		
Input side disconnection device	Motor-driven switch-disconnector / circuit breaker (Optiprotect)	
Output side disconnection device	AC circuit breaker	
DC overvoltage protection / AC overvoltage protection	Surge arrester type I / surge arrester type I	
Grid monitoring	●	●
Ground fault monitoring / Remote ground fault monitoring	○ / ○	○ / ○
Insulation monitoring	○	○
Surge arrester for auxiliary supply	●	●
Protection class (as per IEC 62103) / overvoltage category (as per IEC 60664-1)	I / III	I / III
<b>General Data</b>		
Dimensions (W / H / D)	2562 / 2279 / 956 mm (101 / 90 / 38 inch)	
Weight	1800 kg	1800 kg
Operating temperature range	-20 °C ... +50 °C	
Noise emission <sup>2)</sup>	60 db(A)	
Max. self-consumption (in operation) / self-consumption (at night)	1700 W <sup>4)</sup> / < 100 W	
External auxiliary supply voltage	230 / 400 V (3 / N / PE)	
Cooling concept	OptiCool	OptiCool
Degree of protection: electronics / connection area (as per IEC 60529)	IP54 / IP23	IP54 / IP23
Application	Unprotected outdoors	Unprotected outdoors
Maximum permissible value for relative humidity (non-condensing)	15 % ... 95 %	
Maximum operating altitude above MSL	2000 m	
Fresh air consumption	3000 m <sup>3</sup> /h	
<b>Features</b>		
DC terminal	Ring terminal lug / cage terminal (Optiprotect)	Ring terminal lug / cage terminal (Optiprotect)
AC terminal	Ring terminal lug	Ring terminal lug
Display	○	○
Communication protocols	Ethernet (optical fiber optional), modbus RS485 / is not required (Optiprotect)	Ethernet (optical fiber optional), modbus RS485 / is not required (Optiprotect)
Sunny String-Monitor	RAL 9016 / 9016 / 7005 / 7004	
Color of enclosure, door, base, roof	EN 61000-6-2, EN 61000-6-4, EEG conformity, Arrêté du 4/23/08, R.D. 1.663 / 2000, R.D. 661 / 2007, BDEW-MSRL / FGW / TR84	
Certificates and approvals (more upon request)	4S2, 4C2	
Classification of the ambient conditions (according to IEC 60721-3-4)		
● Standard features ○ Optional features – Not available		
Type designation	SC 500CP-10	SC 630CP-10

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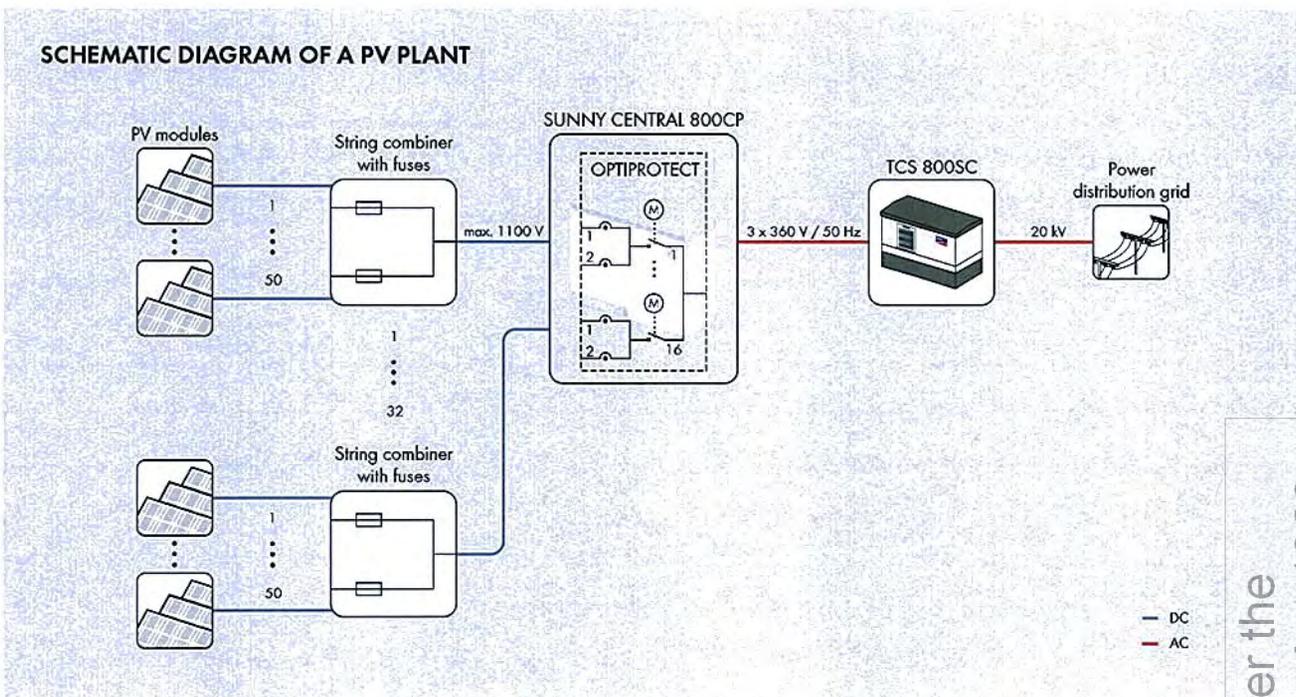
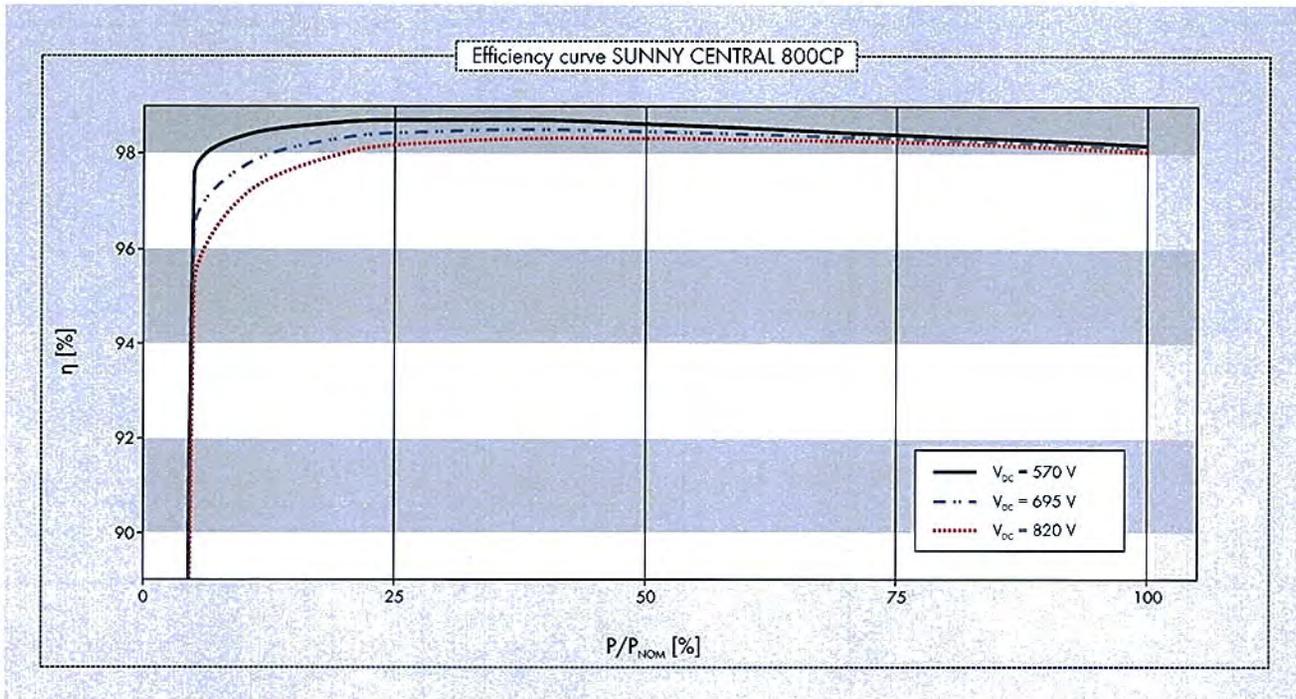
4

- 1) Startup at DC voltage < 1000 V
- 2) At 1.05 V<sub>AC, nom</sub> and cos φ = 1
- 3) Further AC voltages, DC voltages and power classes can be configured (for more detailed information, see technical information "Innovations\_CP" at www.SMA.de)
- 4) Self-consumption during nominal operation
- 5) Sound pressure level at a distance of 10 m
- 6) With complete dynamic grid support
- 7) Efficiency measured without internal power supply

Sunny Central 720CP	Sunny Central 760CP	Sunny Central 800CP
808 kW	853 kW	898 kW
1000 V / 1100 V optional	1000 V / 1100 V optional	1000 V / 1100 V optional
577 V - 820 V / 525 V - 820 V <sup>2)3)</sup>	609 V - 820 V / 554 V - 820 V <sup>2)3)</sup>	641 V - 820 V / 583 V - 820 V <sup>2)3)</sup>
577 V - 820 V / 525 V - 820 V <sup>2)3)</sup>	609 V - 820 V / 554 V - 820 V <sup>2)3)</sup>	641 V - 820 V / 583 V - 820 V <sup>2)3)</sup>
565 V	595 V	620 V
1400 A	1400 A	1400 A
515 V / 515 V	545 V / 545 V	568 V / 570 V
1	1	1
9 / 32 (Optiprotect)	9 / 32 (Optiprotect)	9 / 32 (Optiprotect)
792 kVA / 720 kVA	836 kVA / 760 kVA	880 kVA / 800 kVA
324 V / 292 V - 356 V	342 V / 308 V - 376 V	360 V / 324 V - 396 V
50 Hz, 60 Hz / 47 Hz ... 63 Hz	50 Hz, 60 Hz / 47 Hz ... 63 Hz	50 Hz, 60 Hz / 47 Hz ... 63 Hz
50 Hz / 324 V	50 Hz / 342 V	50 Hz / 360 V
1411 A	1411 A	1411 A
< 3 %	< 3 %	< 3 %
	1 / 0.9 leading ... 0.9 lagging	
3 / 3	3 / 3	3 / 3
98.6 % / 98.4 % / 98.5 %	98.6 % / 98.4 % / 98.5 %	98.6 % / 98.4 % / 98.5 %
Motor-driven switch-disconnector / circuit breaker (Optiprotect)		
AC circuit breaker		
Surge arrester type I / surge arrester type I		
●	●	●
○ / ○	○ / ○	○ / ○
○	○	○
●	●	●
I / III	I / III	I / III
2562 / 2279 / 956 mm (101 / 90 / 38 inch)		
1800 kg	1800 kg	1800 kg
-20 °C ... +50 °C	-20 °C ... +50 °C	-20 °C ... +50 °C
60 db(A)	60 db(A)	61 db(A)
1700 W <sup>4)</sup> / < 100 W	1700 W <sup>4)</sup> / < 100 W	1700 W <sup>4)</sup> / < 100 W
230 / 400 V (3 / N / PE)	230 / 400 V (3 / N / PE)	230 / 400 V (3 / N / PE)
OptiCool	OptiCool	OptiCool
IP54 / IP23	IP54 / IP23	IP54 / IP23
Unprotected outdoors	Unprotected outdoors	Unprotected outdoors
15 % ... 95 %	15 % ... 95 %	15 % ... 95 %
2000 m	2000 m	2000 m
3000 m <sup>3</sup> /h	3000 m <sup>3</sup> /h	3000 m <sup>3</sup> /h
Ring terminal lug / cage terminal (Optiprotect)	Ring terminal lug / cage terminal (Optiprotect)	Ring terminal lug / cage terminal (Optiprotect)
Ring terminal lug	Ring terminal lug	Ring terminal lug
○	○	○
Ethernet (optical fiber optional), modbus RS485 / is not required (Optiprotect)	Ethernet (optical fiber optional), modbus RS485 / is not required (Optiprotect)	Ethernet (optical fiber optional), modbus RS485 / is not required (Optiprotect)
RAL 9016 / 9016 / 7005 / 7004		
EN 61000-6-2, EN 61000-6-4, EMC conformity, CE conformity, Arrête du 4/23/08, R.D. 1663 / 2000, R.D. 661 / 2007, BDEW-MSRL / FGW / TR8 <sup>6)</sup>		
4S2, 4C2		
SC 720CP-10	SC 760CP-10	SC 800CP-10

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1. **GOODS DESCRIPTION**

**Inverters, mains solar power plant having ALL of the following:**

- (a) Capable of varying power factor between  $\pm 0.90$  pf
- (b) Nominal output over 700 kVa AC
- (c) Maximum power in put over 800 kW DC

2. **REASONS FOR CLAIMED HEADING:**

**Identification**

Goods are an inverter used to transform DC power from solar voltaic cells to mains supply AC power in a mains power plant. Goods are connected to a very large solar array by various cabling, invert the direct current power received into AC current for use in mains power system.

The particular type of inverted covered by this application is the 720CP unit in the attached brochure from SMA Australia which contains the technical specifications of the machine. This unit is manufactured in Germany.

s47G



s47G



**Headings Considered**

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**8504: ELECTRICAL TRANSFORMERS, STATIC CONVERTERS (FOR EXAMPLE, RECTIFIERS) AND INDUCTORS:**

No other headings considered to apply

HSEN 8504 identifies the inverter to be a kind of static converter:

**(II) ELECTRICAL STATIC CONVERTERS**

The apparatus of this group are used to convert electrical energy in order to adapt it for further use. They incorporate converting elements (e.g., valves) of different types. They may also incorporate various auxiliary devices (e.g., transformers, induction coils, resistors, command regulators, etc.). Their operation is based on the principle that the converting elements act alternately as conductors and non-conductors.

The fact that these apparatus often incorporate auxiliary circuits to regulate the voltage of the emerging current does not affect their classification in this group, nor does the fact that they are sometimes referred to as voltage or current regulators.

This group includes :

- (A) **Rectifiers** by which alternating current (single or polyphase) is converted to direct current, generally accompanied by a voltage change.
- (B) **Inverters** by which direct current is converted to alternating current.

**Classification 8504.40.90**

**SUBSTITUTABILITY OF LOCALLY PRODUCED GOODS**

- (a) Verve Energy has investigated the capability of all of the major inverter manufacturers to meet <sup>s47G</sup> requirements over the past 12 months. The only manufacturer who currently meets the requirements, according to Verve Energy's investigations, is SMA. If the Contactor proposes to use any other manufacturer then the Contractor must clearly provide all of the required information showing that they comply with the requirements outlined above.
- (b) Verve through recent procurement processes have been unable to find an Australian supplier of the goods although they are purchasing the current inverters from SMA an Australian company, the inverters are manufactured wholly in Germany.
- (c) Verve Energy do have a commitment <sup>s47G</sup> to seek the best opportunity for Australian supply, they have been unable to locate any Australian inverter capacity.
- (d) <sup>s47G</sup> A report stating non Australian manufacture is attached to this application in support of that view.
- (e) The current equipment will be obtained through the <sup>s47G</sup> who will import the stated goods from overseas through SMA.
- (f) Searches have been conducted on Google, Kompass (via JPM Media) and the Australian Manufacturers guide. Copies of the searches are attached.
- (g) Unfortunately the searches were very unlikely to reveal any Australian capability for this scale of equipment and subsequently have not.
- (h) The Google search on Inverter manufacturers in Australia came up with a list of providers including SMA whose machines are imported from Germany. The remainder of the firms identified are the producers of very small scale rooftop units designed for domestic rather than large scale use as is the case with this plant.
- (i) The Kompass (JPM Media Search ) also located 12 records. Again these companies were either resellers of imported equipment or small scale residential providers.

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- (j) The Australian Manufacturers Guide came up with only Thytec Australia who do produce a small scale inverter but not of the type used in mains grid applications. This company was also identified on the google and Kompass searches.
- (k) Again we point to the industry expert who confirms that at this time the subject goods are not capable of manufacture in Australia.
- (l) We believe we have sound reasons to assert that there are no current capabilities within Australia to supply the inverters nor are there any viable alternatives or any substitutes.

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inverter manufacturers in australia



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[www.solar-facts.com/inverters/inverter-manufacturers.php](#) - Cached

**Manufacturers Name. Inverter Range Details.**

Latronics (Australia). A range of sinewave inverters with outputs from 500 - 7000 watts. A range of grid tied ...

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**Selectronic Australia Pty Ltd - True Sine Wave Inverters**

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- **Business type:** retail sales, wholesale supplier, exporter, importer, distributor
- **Product types:** photovoltaic systems, water pumps, solar tracking systems, solar roofing systems, batteries lead acid, DC to AC power inverters.
- **Service types:** consulting, design, installation, construction, engineering, project development services, site survey and assessment services, architectural design services
- **Address:** 101 Graves St, Newton, South Australia Australia 5074
- **Telephone:**
- **FAX:** 08 8219 0187
- **Web Site:** <http://www.suntrix.com.au>
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- **Business type:** manufacturer, wholesale supplier, retailer
- **Product types:** photovoltaic systems, photovoltaic module mounting systems, photovoltaic module components, photovoltaic modules, inverters.
- **Service types:** design, installation, research services
- **Address:** 82-86 Bay Street, Botany, NSW Australia 2019
- **Telephone:**
- **FAX:** +61 2 9666 4079
- **Web Site:** <http://www.pacificsolar.com.au>
- **E-mail:** [Send Email to Pacific Solar Pty Limited](#)

**Kyocera Solar Pty, Ltd.**

- **Business type:** manufacturer, wholesale supplier, service
- **Product types:** photovoltaic modules (PV modules, solar panels), solar water pumping systems, recreational vehicle power systems, marine power systems, telecommunications power systems, solar powered traffic lights, custom photovoltaic modules, remote home power systems, backup power systems, photovoltaic systems, and emergency preparedness supplies.
- **Service types:** system design
- **Address:** Cnr Forbes & Riverside Drive, West End, Queensland Australia 4101
- **Telephone:**
- **FAX:** 61-7-3844-8569
- **Web Site:** <http://www.kyocerasolar.com>
- **E-mail:** [Send Email to Kyocera Solar Pty, Ltd.](#)

**Advanced Energy Systems Ltd**

- **Business type:** manufacturer, retail sales, wholesale supplier, exporter
- **Product types:** DC to AC power inverters, hybrid power systems, photovoltaic modules, remote home power systems, telecommunications power systems, power conditioning units, MPPT solar controllers.
- **Service types:** system design, system installation, site survey and assessment
- **Address:** 121 Ewing St., Welshpool, Western Australia Australia 6106
- **Telephone:**

**Associated Controls**

- **Business type:** manufacturer, service
- **Product types:** Solar Heating, Solar Controller for Pool heating. Pool Heating controller, LED lighting for pool. .
- **Service types:** Pool heating controllers
- **Address:** 2-4 Norfolk Road, Greenacre, Nsw Australia 2190
- **Telephone:**
- **FAX:** +61 2 9642 4922

### Australis Co. Ltd

- **Business type:** manufacturer, exporter
- **Product types:** DC to AC power inverters, DC to DC power converters, uninterruptible power supplies UPS, water filtering and purification systems, backup power systems, DC powered appliances, DC to DC Converters, AC Automatic Voltage Regulators, AC Step-Up & Down Transformers, Contact Voltage Regulators, Adjustable DC Power Supply, DC Regulated Power Supply, Switching Power Supply, Battery Chargers, Uninterruptible Power Supply, Power Amplifiers, AC to DC Adaptors, Educational Power Supply, Power Bars, Power Tools, Lighting equipment and other home and industrial electric appliances. Such as Electric Irons, Washing machines, Water Dispensers..
- **Address:** 5 Ferrari Place, Sydney, N.S.W. Australia 2565
- **Telephone:**

### CSR Edmonds

- **Business type:** manufacturer, wholesale supplier, exporter, importer
- **Product types:** uninterruptible power supplies UPS, solar electric power systems, backup power systems, DC to AC power inverters, solar charge controllers, solar water pumping system components.
- **Service types:** design, research services, maintenance and repair services
- **Address:** PO Box 511, Brookvale, Nsw Australia 2100
- **Telephone:**
- **FAX:** 662-7468712

### D.C. Power Systems Pty. Ltd

- **Business type:** manufacturer, wholesale supplier
- **Product types:** Portable Diesel & Gasoline powered Generators, Inverters, Diesel and Gasoline powered Water Pumps, Portable Light Towers, air compressors..
- **Service types:** Engineered Stand-by power systems
- **Address:** P.O. Box 73, Pacific Palms, NSW Australia 2428
- **Telephone:**
- **FAX:** 61-2-65542135

### EnerTec Australia Pty Ltd

- **Business type:** retail sales, wholesale supplier, exporter
- **Product types:** LED lighting, DC to AC power inverters, DC to DC power converters, solar outdoor lighting systems.
- **Service types:** consulting, design, project development services, research services
- **Address:** 2 Sneyd Street Bowen Hills, Brisbane, Queensland Australia
- **Telephone:**
- **FAX:** +617 3852 1699

### GSL Electronics Pty Ltd

- **Business type:** manufacturer, wholesale supplier, exporter
- **Product types:** DC to AC power inverters, DC to DC power converters (voltage reducers), DC lighting, power supplies, power supplies with battery charge connection, fluorescent light inverters, 240vac battery chargers, dc-dc battery chargers, battery isolators, power supplies, reverse alarms, voltage doublers.
- **Service types:** Design and manufacture of power conversion products
- **Address:** Unit 2, 1 St. James Place, Seven Hills, NSW Australia 2147
- **Telephone:**
- **FAX:** 61 2 9620 9899

### Latronics

- **Business type:** manufacturer
- **Product types:** On Grid Inverters and Off grid Inverters, Battery Chargers and AC transfer switches.
- **Address:** 105 Grigor St, Moffatt Beach, Qld Australia 4551
- **Telephone:**
- **FAX:** 61 7 54916792

### M+H Power Systems Pty. Ltd.

- **Business type:** manufacturer, wholesale supplier
- **Product types:** lead-acid batteries, battery chargers, DC to AC power inverters.
- **Service types:** system design
- **Address:** 9 Mosrael Place, Rowville, Melbourne, Victoria Australia 3178
- **Telephone:** 613 97630555

### Outback Inverters

- **Business type:** retail sales, wholesale supplier
- **Product types:** DC to AC power inverters.
- **Address:** PO Box 134, Bulimba, Queensland Australia 4171
- **Telephone:**
- **FAX:** +61 7 3395 6534

### Plug&Power

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- **Business type:** manufacturer, retail sales, wholesale supplier
- **Product types:** solar electric power systems, photovoltaic systems, DC to AC power inverters.
- **Address:** 45 Sunbeam Rd, Glynde, South Australia Australia 5070
- **Telephone:**
- **FAX:** +61 8 8165 0188

### Power Conversions Pty. Ltd.

- **Business type:** manufacturer
- **Product types:** DC to AC power inverters, DC to DC power converters, fluorescent lighting fixtures and ballasts .
- **Address:** Unit 2, 6 London Dr, Bayswater, VIC Australia 3153
- **Telephone:** 61 397611252
- **FAX:** 61 397611911

### Power Solutions Australia

- **Business type:** manufacturer, exporter
- **Product types:** DC to AC power inverters, battery charge controllers, DC to DC power converters, solar charge controllers.
- **Address:** 3/6 Holloway Drive, Baswater, Victoria Australia 3153
- **Telephone:**

### Redarc Electronics

- **Business type:** manufacturer, wholesale supplier, exporter, importer
- **Product types:** battery chargers, battery charge controllers, recreational vehicle power systems, dc to dc power converters, dc to ac power inverters, marine power systems, customised programmable timers, voltage boosters, voltage stabilisers, battery isolators, electric brake controllers, glow plug timers, turbo timers, power supplies, dc fluorolamp ballast, emergency vehicle warning flashers.
- **Address:** 23 Brodie Road (North), Lonsdale, Sa Australia 5160
- **Telephone:**
- **FAX:** +61 8 8387 2889

### Remote Area Power Pumping & Solar Systems

- **Business type:** manufacturer, retail sales, exporter
- **Product types:** emergency backup batteries, DC to AC power inverters, hybrid power systems, energy efficient lighting, photovoltaic cells, solar power systems.
- **Service types:** design, installation, maintenance and repair services
- **Address:** P. O. Box 7959, Toowoomba South, Queensland Australia 4350
- **Telephone:**
- **FAX:** 07 46358337

### Rich Electric

- **Business type:** Manufacturer
- **Product types:** AC Power Inverters, DC to AC Pure Sine Wave Power inverters, Electric Scooters, Solar electric power systems, Solar charge controllers, Marine power systems, Battery Chargers, Battery - Powered Electric Scooters.
- **Address:** Ferrari Street, Sydney, N.S.W Australia 2565
- **Telephone:**
- **FAX:** 61 2 9829 4850

### Rustic River

- **Business type:** manufacturer, retail sales
- **Product types:** DC to AC power inverters.
- **Service types:** system design
- **Address:** RMB W513, Ballarat. VIC Australia 3352
- **Telephone:**

### Selectronic Australia

- **Business type:** manufacturer
- **Product types:** DC to AC power inverters from 200W to 10kW single phase system monitoring and charge controllers..
- **Address:** Suit5, 20 Fletcher Road, Mooroolbark, Victoria Australia 3137
- **Telephone:**
- **FAX:** +61 3 9727 6601

### Snaptec Australia Pty. Ltd.

- **Business type:** manufacturer, wholesale supplier, exporter, importer
- **Product types:** DC to DC power converters, battery chargers, DC to AC power inverters, packaged power systems, portable power systems, marine power systems, DC/DC Power Modules, AC/DC Power Supplies, frequency converters, marine chargers, industrial batteries.
- **Service types:** Power Supplies design service sales
- **Address:** Unit 29 / 15 Valediction Road, Kings Park, Nsw Australia 2148
- **Telephone:**
- **FAX:** 61 2 8569 0659

### Solar 2K Pty Ltd

- **Business type:** manufacturer, retail sales, wholesale supplier, importer
- **Product types:** emergency backup batteries, marine batteries, DC to AC power inverters, fuel powered electric generators, DC lighting, photovoltaic modules.
- **Service types:** design, installation, construction, engineering, project development services, research services, contractor services, maintenance and repair services, testing services
- **Address:** 2/6 Mathew TCE, Caboolture, QLD Australia 4510
- **Telephone:** 617 54991129

• FAX: 617 54324074

### Solar Energy Australia Pty Ltd

- **Business type:** manufacturer, wholesale supplier
- **Product types:** DC to AC power inverters.
- **Address:** 4 Beaumont Road, Mount Kuring Gai. NSW Australia 2080
- **Telephone:**

### Sunlight Solar Systems Australia Pty. Ltd.

- **Business type:** manufacturer, retail sales, service
- **Product types:** photovoltaic modules (PV modules), rechargeable batteries, battery charge controllers, packaged power systems, DC to AC power inverters, energy efficient lighting (compact fluorescent, LEDs), billboard lighting, recreational vehicle RV power .
- **Service types:** system design, system installation, maintenance and repair
- **Address:** Factory 1-10/12 Lambert Avenue, Newtown, Geelong, Victoria Australia 3220
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- **FAX:** 61 3 5223 3588

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