

Salient Features

Efficient

- Pure Sine wave with a voltage regulation of 97 % and at a frequency of 50 Hz
- Peak generator efficiency of 98%
- Self consumption of the inverter is as low as 3 W
- Search Mode' ensures that the system automatically switches OFF when there is no load connected to the system

Robust

- Robust in design and functionality
- Capable of taking high surge currents for starting and operation of inductive loads like motors, Air Conditioners, Heaters, Refrigerator etc

Simple

- Built-in Solar charge controller allows you to connect solar modules directly to the generator
- Plug and play system ensures that system is easy to install
- System monitoring is provided by easy to interpret indications which allows for easy management and maintenance of the system

Intelligent Battery Management

- Four stage charging ensures high charging efficiency and longer battery life
- Switch mode settings for sealed and tubular

batteries ensures optimal charging based on the type of battery

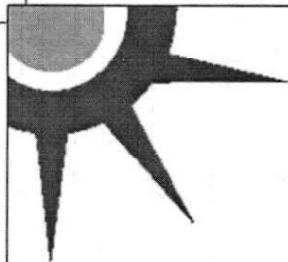
- Inbuilt Equalisation Mode ensures proper maintenance of batteries by destroying sulphate deposits on the battery lead plate
- Low Voltage Disconnect' avoids deep discharging of batteries which reduces their cycle times

Flexible

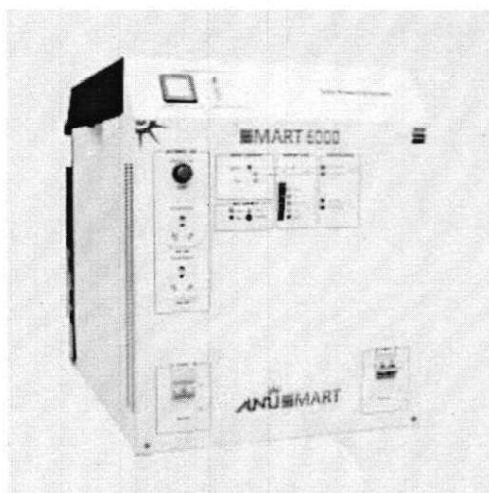
- The system can operate as a Battery Charger, a Solar Power generator and as an Uninterrupted Power Supply
- Grid charging is possible through both automatic and manual modes to ensure maximum flexibility
- Transfer time is as low as 12 ms between Inverter and Grid mode to ensure power is uninterrupted

Safe

- Galvanic isolation between the DC input side and AC load side
- Built-in DC and AC heavy duty input breakers allow a safe and quick disconnection from the DC or AC circuits
- Short circuit protection, battery protection, overload protection and over-temperature protection ensures safe running of the system at all times avoiding risk to life and property



Smart 6000



Technical Data

Electrical Specifications

Continuous power (P _{nom}) @ 25°C	6000 W
Surge rating @ 25°C	18000 W (3sec)
Idle consumption	< 6 W
Solar PV connected	6000 Wp
Solar charge controller rating	100 A DC
Output waveform	True sine wave
Peak efficiency	98%
Transfer time	< 15 ms
AC connections	AC grid or generator
AC input / pass through current	1 - 80A DC
AC input voltage range	180 - 280 VAC
AC input frequency range	48 - 68 Hz
AC output voltage range	220V - 240 VAC
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 3%
DC operating range	43.2 - 64V DC
Charging Type	PWM 4-stage
Max. charging current (ISC)	120 A DC
Max. PV open circuit voltage (UOC)	92V DC
Operation mode for auxiliary contact	Auto / Manual
Power factor corrected charging	0.96
Nominal DC input voltage	48 VDC

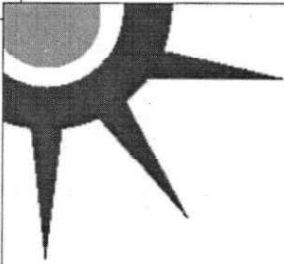
Protection

AC/DC Short-circuit	automatic disconnection
AC/DC Overload	automatic shutdown
Over temperature	auto shutdown with auto restart (after cooling)
LVD	AC power cut off
Batt. reverse polarity	DC fuse protected
Battery input circuit breaker	200A DC
DC battery fuse	200A (10x 20A)
AC input circuit breaker	50A DC
DC solar input fuse	3x 40A DC

General Specifications

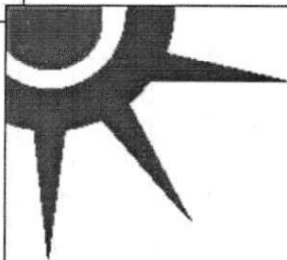
Dimensions (H*B*L)	620*475*670 mm
Weight	100 kg

Smart Generators from Anu Smart



**UNLOCKING UNTAPPED
ECONOMICAL POWER. SOLAR POWER**

**Modern technology makes solar power harnessing cheaper
and long lasting. It costs just ₹2.50 per unit and is constant
for 40 long years. Economical today and tomorrow.**



Certifications & Approvals



Channel Partner

MNRE

DGS&D



Anu Solar Power Pvt. Ltd.

No. 248, 8th Main, 3rd Cross
3rd Phase, Peenya Industrial Area
Bangalore - 560 088, INDIA

E-mail : info@anusolar.com

Web : www.anusolar.com

Phone : +91-80-43550200 (100 lines)

Customer Support: +91 - 80 - 43550200 (24/7 IVR Support)

For online purchases log on to: www.anusolar.in

13895 hrs
15.60 hrs
11.709000 =

29.957

Included: $\left. \begin{array}{l} 5/10 \text{ yrs} - 90\% \\ 10 \text{ yrs} - 85\% \\ 5 \text{ yrs} - 80\% \end{array} \right\} \text{output}$

Aug 20/37 } 8 mth. 13 cents
 11/20/44 }
 Price to Parker
 11/20/44 }
 Delivery for
 Aug. 13 to March 2014
 1:46. 000 = 50,000
 1 cent = 100,000

~~1.46,000 x 13
19 Jan 78~~

NS 14.23 Jan
50105

Decm - April

lead price increases
for the day

lect pro - dures ↓
+ battery

75% adv. - for 12 wks.
by 50,000 / = per week

25% after del + post.

August to Dec. - decreases!
Dec. - March - increase!

who are not
regist with →

MANRE - Rs 2,40,000 - for 1 kw.
chall. @ '30'%. subsidy.

27/4/13.

Purchase

From: "Purchase" <purchase@modiproperties.com>
To: "Anil Reddy G" <anil.reddy@su-kam.com>
Cc: "Motukuru Uday Kiran" <mukiran@su-kam.com>; "V. Phani Kumar" <vp.kumar@su-kam.com>; "Raja Gopal" <rgopal@su-kam.com>; <Gaurang@modiproperties.com>
Sent: Monday, April 15, 2013 5:42 PM
Subject: Re: Costing for Solar Power Plant

Dear Sir,

Sub: Solar Power Systems to our Villas at Siver Creek, Cherlapally site.
Ref: Your quote dtd. 04 April, 2013.

With reference to your quote cited above and subsequent discussions you had with our Director regarding supply and installation of Solar Power Systems to our above site.

In this regard we would like to inform you that we want a written confirmation on the following:

- 1) Rates to be freezed as per the quote and negotiations.
- 2) We will start to issue Purchase Orders from August, 2013 . Delivery as per our schedule from Sept. 2013 to March, 2014.

Please confirm your acceptance on the above, so that we will proceed further.

Thanks and regards
Srinivasa Rao
Asst.Manager-Purchase.

15-Apr-13

Sukam -

DESCRIPTION	RATING	BASIC	VAT @ 5%	TOTAL	QTY	TOTAL
PCU1000x24SP11DX11	1 KVA	19202	960	20162	1	20162
TUBULAR BATTERIES	180 AH	13780	689	14469	2	28938
SOLAR PANELS	1000 WP	56000	2800	58800	1 SET	58800
TOTAL PACKAGE PRICE @ 5% VAT						107900

DESCRIPTION	RATING	BASIC	VAT @ 5%	TOTAL	QTY	TOTAL
PCU2000x48SP11DX11	2 KW	28400	1420	29820	1	29820
TUBULAR BATTERIES	180 AH	13780	689	14469	4	57876
SOLAR PANELS	1000 WP	56000	2800	58800	1 SET	58800
TOTAL PACKAGE PRICE @ 5% VAT						146496

S. Rao
prepare in Excel Sheet!

6/4/13

S.L. no	Item	Unit	Price	VAT Amount	Amount
59	Solar Panel - 1000wp 1Kw	1	56,000	2,800	
59	PCU - 2KVA	1	28,400	1,420	
1459	Tubular Batteries 180 AH	2	13,780		
3					
8470					
Total					

- Transport - chkl und ? value
- warranty on all items!

Installation charges extra - Rs. 12,000/- to
Rs. 15,000/- max
Civil works extra

Purchase

From: "Anil Reddy G" <anil.reddy@su-kam.com>
To: <purchase@modiproperties.com>; <Gaurang@modiproperties.com>
Cc: "Motukuru Uday Kiran" <mukiran@su-kam.com>; "V.Phani Kumar" <vp.kumar@su-kam.com>; "Raja Gopal" <rgopal@su-kam.com>
Sent: Saturday, April 06, 2013 3:59 PM
Attach: MODI PROP COSTING (2).xlsx
Subject: Costing for Solar Power Plant

Sir,

please find the attachment of the bifurcation of the price list.

hoping for a positive reply.

Thanks & Regards

ANIL REDDY.G
AREA SALES MANAGER-SOLAR(CHANNEL SALES)
SU-KAM POWER SYSTEMS LTD
H.NO: 1-11-254/1, 1ST Floor
Motilal Nagar , Begumpet
Lane Beside SBH Zonal Office
Hyderabad – 500016, Andhra Pradesh
Mobile:+91 9177819000
Tel: 040-27717628
Email: anil.reddy@su-kam.com.

06-Apr-13

Purchase

From: "Anil Reddy G" <anil.reddy@su-kam.com>
To: <purchase@modiproperties.com>; <Gaurang@modiproperties.com>
Cc: "Motukuru Uday Kiran" <mukiran@su-kam.com>; "V. Phani Kumar" <vp.kumar@su-kam.com>; "Raja Gopal" <rgopal@su-kam.com>
Sent: Thursday, April 04, 2013 8:53 AM
Attach: MODI PROP COSTING.xlsx
Subject: FW: Costing for Solar Power Plant

Sir,

As per the discussions we are giving you the final price for the 2 types of solar power pack proposed.

TYPE 1:

SOLAR PANEL: 1KW----- (250WP x 4 nos) X

POWER CONDITIONING UNIT: 1KVA ----- 1 no X

BATTERY BANK: 12V, 180AH----- 2 nos. _____ Rs _____ ??

The final price of the solar power pack is Rs. 108000/- including taxes and transportation.

Installation charges are extra as per the actuals.

TYPE 2:

SOLAR PANEL: 1KW----- (250WP x 4 nos) ✓ _____ Rs _____ ??

POWER CONDITIONING UNIT: 2KVA ----- 1 no. ✓ _____ Rs _____ ??

BATTERY BANK: 12V, 180AH----- 4 nos. (circled) _____ Rs _____ ??

The final price of the solar power pack is Rs. 146596/- including taxes and transportation.

Installation charges are extra as per the actuals.

Hoping for a positive reply.

Thanks & Regards

ANIL REDDY.G
 AREA SALES MANAGER-SOLAR(CHANNEL SALES)
 SU-KAM POWER SYSTEMS LTD
 H.NO: 1-11-254/1, 1ST Floor
 Motilal Nagar, Begumpet
 Lane Beside SBH Zonal Office
 Hyderabad - 500016, Andhra Pradesh
 Mobile: +91 9177819000
 Tel: 040-27717628
 Email: anil.reddy@su-kam.com.

Final prices:
need break up per MD's note!

Break up!
in Excel Sheet - old is new quote
for 6.4.13

4-4-13.

*Spoke to A. Reddy.
 He agreed that he will
 call back
 4/4/13*

DESCRIPTION	RATING	BASIC	VAT @ 5%	TOTAL	QTY	TOTAL
PCU1000x24SP11DX11	1 KVA	19202	960	20162	1	20162
TUBULAR BATTERIES	180 AH	13780	689	14469	2	28938
SOLAR PANELS	1000 WP	58000	2900	60900	1 SET	60900
TOTAL PACKAGE PRICE @ 5% VAT						110000

DESCRIPTION	RATING	BASIC	VAT @ 5%	TOTAL	QTY	TOTAL
PCU2000x48SP11DX11	2 KW	28400	1420	29820	1	29820
TUBULAR BATTERIES	180 AH	13780	689	14469	4	57876
SOLAR PANELS	1000 WP	58000	2900	60900	1 SET	60900
TOTAL PACKAGE PRICE @ 5% VAT						148596

Rating
SP1 -

crisis rating

3/4/13

VSC - Sukam - MPRC
Star Panel.

1) Tubular Batteries - low maintenance
warranty 3 yrs.

Is _____

2) Star Panels - 1,000 WP - 58 WP.
Is _____

performance warranty - 25 yrs.
3) PCU - 2 KVA x 8 power factor
1600 watt

Is _____

warranty - (27 yrs) - 37 yrs

SMU

to Mr. Sharma

SUKATA

DESCRIPTION	RATING	BASIC	VAT @ 5%	TOTAL	QTY	TOTAL
PCU1000x24SP11DX11	1 KVA	19202	960	20162	1	20162
TUBULAR BATTERIES	180 AH	13780	689	14469	2	28938
SOLAR PANELS	1000 WP	58000	2900	60900	1 SET	60900
TOTAL PACKAGE PRICE @ 5% VAT						110000

DESCRIPTION	RATING	BASIC	VAT @ 5%	TOTAL	QTY	TOTAL
PCU2000x48SP11DX11	2 KVA	28400	1420	29820	1	29820
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SOLAR PANELS	1000 WP	58000	2900	60900	1 SET	60900
TOTAL PACKAGE PRICE @ 5% VAT						148596

1K W - Copper Transformer - increase 4,000 to 5,000.
 32A Charge Controller -
 Data logger
 4,000/-

28,938 x 2

30/3/13

upgradation!

Branch manager
 Mr. plane
 Anil Reddy, BDM - solar
 9177819000

1/4/13

for

28,940
 61,000
 29,800
 1,18,740
 + 5% VAT

1 input

Monday - 1-4-13

To,

Mr. Sukam

Please see break up of 'Sukam' quote.

1 KW - Rs 20,162

upgradation 2 KW - Rs 29,820.
Rs 9,658 = more.

Because of
- Copper transformer - increase - Rs 4,000 to Rs 5,000 =
- 32A relay switch - controller
date logging.

P.T.O.

Gaurang

From: "Raja Gopal" <rgopal@su-kam.com>
To: "Gaurang" <gaurang@modiproperties.com>; <purchase@modiproperties.com>
Cc: "V.Phani Kumar" <vp.kumar@su-kam.com>; "Motukuru Uday Kiran" <mukiran@su-kam.com>
Sent: Wednesday, March 27, 2013 7:08 PM
Attach: price quote for modi properties1.docx
Subject: RE: Costing for Solar Power Plant

Dear Sir,

At the outset I apologize for delay in sending the proposal for solar power plants, herewith the enclosed commercial proposal for your kind perusal as per the specifications.

Thanks & Regards

Rajagopal.K
 Area Sales Manager
 Su-Kam Power Systems Ltd.
 H No : 1-11-254/1, 1st Floor
 Motilal Nagar, Begumpet
 Lane Beside SBH Zonal Office
 Hyderabad- 500016,
 Tel : +91-40-27717628
 Mob :+91-98854 56333.
 Email : rgopal@su-kam.com



Corporate Office:
 Su-Kam Power Systems Ltd.
 54, Udyog Vihar, Phase VI, Sector-37
 Gurgaon - 122001, Haryana, India
 Tel : +91-124-4170500
 Fax :+91-124-4038702,4038700
 www.su-kam.com

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28-Mar-13

Su-Kam Power Systems Limited.

Date: 26.03.2013

Dear Sir,

Subject: Quotation for solar packages

We thank you for your enquiry and interest shown in Su-Kam Power Systems Limited, for the above requirement.

As you are aware, M/S Su-Kam Power Systems Limited is the largest manufacturer of power backup solutions. It has 5 manufacturing plants and 28 branch offices all over the world.

We are pleased to submit you our best proposal for power backup products.

We have put-in our best efforts to ensure that all your requirements are met and we do keenly look forward towards your valued order. Should you meanwhile require clarification or any assistance from us, we are at your service.

Thanking you and assuring you of our best services at all times, we remain.

Yours sincerely,

For Su-Kam Power Systems Limited

RAJAGOPAL.K

E: rgopal@su-kam.com

Handwritten signature and date: 26/3/13

Quotation for solar power pack.

Kind Attention
Date: 26/03/13

SI No.	Project	Technical Specification	Warranty	Quantity	Unit Price (INR)	Total Price (INR)
1	1KW solar power pack	1kW	3 years	1	110000	110000
2	1KW solar power pack with 2KVA solar power conditioning unit	1KW/2KVA	3 years	1	145000	145000

Terms and Conditions:

- 100% advance.
- Prices are Inclusive of taxes and valid for 30 days.
- Delivery shall be made within 10 days from the date of receipt of confirmed purchase order.
- Warranty on system will be of 3 years after product validation.
- The above price Excludes of Module Mounting structure, Cables, Other Accessories and installation charges at Actual.
- Civil Works at Customer's Scope.
- The prices are subject to Hyderabad region.

1,54,000
- 30% subsidy
1.08 lacs.

1 need inverter
2- solar panel
- PCC
- batteries

- 30% subsidy
- MARE

UK MOVERS LTD

28/3/13

Purchase

Rs 46,180/- *30% - subsidy.*

From: "Amish" <amish.jain@sujana.com>
To: "Gaurang" <gaurang@modiproperties.com>
Cc: <jeewak.jadhav@sujana.com>; "Purchase" <purchase@modiproperties.com>; "TJR" <janakiramamarao.tella@sujana.com>
Sent: Wednesday, March 13, 2013 10:21 AM
Subject: Re: Your Quotation dtd - 1.03.13

Dear Mr. Gaurang Mody,

Greetings for the Day!!!

Sir, firstly I would like to take this opportunity to thank you for giving us an opportunity to submit a proposal for 1KW SPV System, but at this moment as MNRE is not giving any kind of guarantee that they would be able to provide subsidy (financial aid), but when ever we get the subsidy we would make sure it is passed on to you.

So we will not be able to match your expectations for the time being, so our quote which we had mentioned in the proposal dated 01-03-2013 (INR. 1,65,050/-); maximum at this moment we can at most offer you a 5 % discount owing to our long term relation, so our final quote to you would be INR. 1,56,798/- for the 1KW SPV System with 4 hrs battery back up.

Awaiting for your earliest and positive response.

Regards.

Amish Jain - Dy. Manager-BD Solar BU

Sujana Energy Limited

601 A, Astral Heights Road # 1

Banjara Hills, Hyderabad - 500 034

Andhra Pradesh, INDIA

Phone +91 40 2335 0953 Ext 102

Fax +91 40 2335 0963

Email amish.jain@sujana.com

Mobile +91 8886110269

PEOPLE. PLANET. PROFIT.

On 12-03-2013 14:52, Gaurang wrote:

Quote is too high. Revise quote & resend. We are looking at quotes less than Rs. 1.15 lacs.

Gaurang Mody

is his quote with subsidy or subsidy deducted

13.3.13 - MNRE - ??
Rs 1.15 - to Rs 1.20 lacs.

13-Mar-13

awaiting for your earliest and positive response.

--

Amish Jain – Dy. Manager-BD Solar BU

Sujana Energy Limited

601 A, Astral Heights Road # 1

Banjara Hills, Hyderabad - 500 034

Andhra Pradesh, INDIA

Phone +91 40 2335 0953 **Ext** 102

Fax +91 40 2335 0963

Email amish.jain@sujana.com

Mobile +91 8886110269

PEOPLE. PLANET. PROFIT.

✓ 2/3/13

02-Mar-13

PROPOSAL FOR INSTALLATION AND
COMMISSIONING
OF
1.0KW SOLAR PHOTOVOLTAIC POWER
GENERATION SYSTEM

TO

MODI PROPERTIES

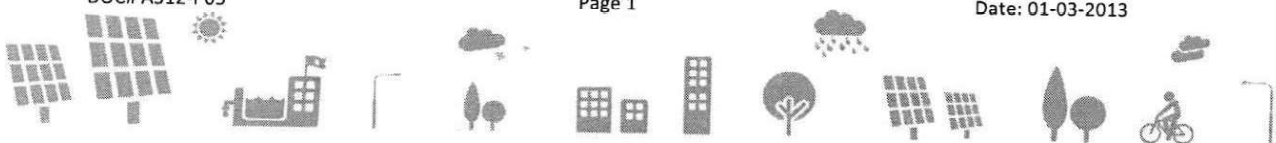
DOC# A312-P05-010313

21/3/13

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2/3/13



1. PROPOSED SOLUTION

1.1 BASIC SYSTEM DESCRIPTION

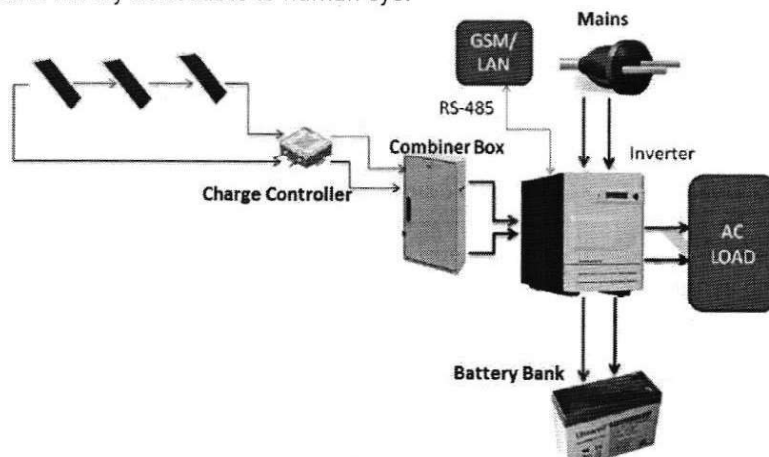
Solar Photovoltaic power generator consists of solar modules in series and parallel connections, these convert solar radiations into DC electrical power at the pre-determined range of Voltages whenever sufficient solar radiation is available. The individual crystalline solar cells are connected together in a module (in series connection), which are hermetically sealed to survive in rugged weather conditions and ensures optimum performance during its long life. In order to achieve a higher system voltage, modules are installed in a row arrangement, called a string. A higher system voltage has the advantage of lesser installation work, higher efficiency of the entire plant and usage of smaller cross section cables. Calculated no. of strings is connected in parallel by cables in Junction Boxes inside the inverter. Precaution from lightening is taken care of using lightening surge arrestors. The PV side DC PV system is isolated using DC Isolators. The system is protected from AC side occurring surges using AC surge arrestors and isolators. Calculated and determined rate MCBS are put across on the DC and AC side to completely protect and maintain the integrity of the system.

1.2 OPERATIONS

The system is design with 1 KWp PV system and with an Inverter of single phase 1 kW capacity.

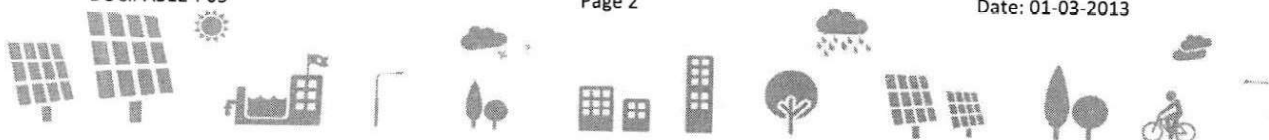
Solar panels mounted on the roof top generate DC electric power. This DC power at the panel is regulated and is fed to the battery through a charge controller. The PV system is designed such that the load (Tube Light, Fan, TV and plug pt) consumption for calculated no of approximate 5hrs is feed into Battery Bank for entire day's operation. The batteries have been sized for 1 operational working day.

During low insolation due to bad and cloudy condition the number of units feed into the battery will not be sufficient for one complete day operation. Then the deficit units will be drawn from the grid thus offsetting the grid consumption. The Inverter has an intelligent system inbuilt that will monitor the battery condition and switch over to the grid. This switch over operation takes place in milliseconds that is hardly noticeable to human eye.



Typical Design Layout

In the above figure the DC electric power generated at the PV system is stored in the batteries through the charge controller. The Inverter is connected to the battery bank where the generated DC power is converted to AC power. The AC power is then put to the DB box.



The Inverter and the charge controller are housed into an intelligent system that optimizes the solar power generation, charges the battery effectively and incorporates safety protective device that takes care of over charge, over load, low disconnect and high disconnect to give a highly efficient system.

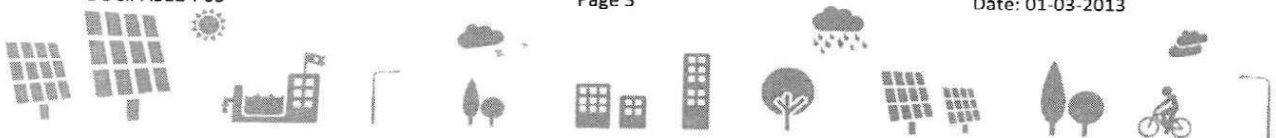
1.2.1 Load Profile:

Description	Load (W)	Qty	Total Load (W)	Hrs of Operation	Total
Ceiling Fans	70	5	350	4	1,400
Tube Light	55	5	275	4	1,100
TV	150	1	150	4	600
Total			775	4	3,100

1.3 PROPOSED SOLAR SOLUTION

System Size	1.0 KWp ✓
Type	Grid Interactive/Off-Grid ✓
Autonomy	1 operational working day ✓
Solar PV Panels	4 numbers of 250Wp panels. ✓
Battery	24 numbers of 100Ah @ 2VDC ✓
Inverter	1.0kW/48V DC input ✓
Mounting	Roof Mounting ✓

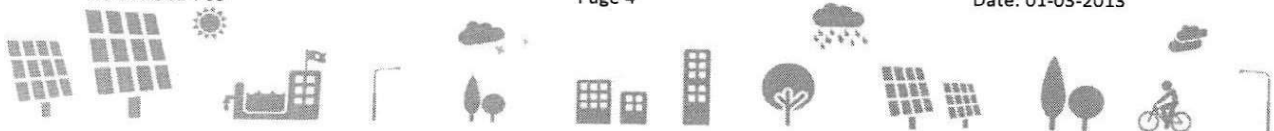
2/3/13



2. BILL OF MATERIALS

Type	Item	Qty
Solar Panels	250Wp Solar PV panel along with required mounting, wiring, MCBs, surge arrestors, cable glands, internal connections and installation	4 units ✓
Solar Power Conditioning units	48V/1.0KV based inverter along with bus bars, connectors, MCBs, wiring, flexible pipes, installation and connections to the Solar PV panels	1 units ✓
Batteries	48V battery of 100Ah SMF VLRA along with required cut outs, battery cable, battery stands, cable lugs, installation, internal connections and connections to the inverters	1 Set ✓

22/13



3. COMMERCIAL PROPOSAL

3.1 PRICING

Line Item	Component / Item	Total Price (INR)
1	Material Cost	Rs. 1,49,165
2	Taxes - VAT @ 5%	Rs. 7,458
SUB TOTAL A		Rs. 1,56,623
3	Installation	Rs. 7,500
4	Service Tax @ 12.36%	Rs. 927
SUB TOTAL B		Rs. 8,427
GRAND TOTAL PAYABLE		Rs. 1,65,050

E&OE

3.2 TERMS AND CONDITIONS

Prices

- All prices mentioned are in Indian Rupees (INR) **One Lakh, Sixty Five Thousand, and Fifty Only**

Taxes & Duties

- As mentioned above. Any change in the tax rates on the date of invoice will directly reflect on the mentioned cost.

Warranty

- Solar PV Panels
 - Performance Warranty (Backed by manufacture) – 25 years (90% power output for 10 years and 80% of power output for the next 15 years)
 - Manufacturing Warranty (Backed by manufacture): 5 years for any manufacturing defects
- Solar PCU– 24 months (Backed by manufacture)
- Battery – 60 months (Backed by manufacture)

Annual Maintenance Contract

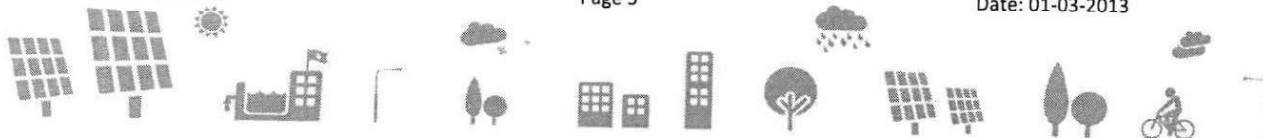
- For Post warranty services, SE will propose AMC (Annual maintenance Contract)
 - Preventive maintenance to be done once in every 2 months

Delivery

- Delivery of goods will be made pursuant to the applicable purchase order. The delivery shall be done within **6 Weeks** of receipt of the purchase order
- Installation of the Solar Photovoltaic backup solution is under the scope of work of this proposal and the time for installation shall take **4 Weeks** after supply

Terms of Payment

- 30% - Advance along with purchase order
- 60%- On delivery of material at the site
- Remaining 10%- at completion of installation and commissioning
- All payments shall be made within 7 calendar days from the date of submission of the relevant invoices *subject to standard terms & conditions*



Copyright

Copyright in all drawings, reports, specifications, bills of quantities, calculations, models, and other documents provided or produced by SE in connection with the Services shall remain vested in the SE.

The Client shall have a license to use the documents referred above for the purpose of completing the Project; however, the Client shall not use nor make copies of such documents in connection with any work other than work comprised in the Project unless express written approval is given in advance by SE.

Purchase Order

Your purchase order may be raised on:

**Sujana Energy Limited,
Plot No. 5A, Vengal Rao Nagar,
Hyderabad- 500 038
Andhra Pradesh, INDIA**

Validity of Proposal

- This proposal is valid till 18th March, 2013

21/3/13 -



4. COMPANY INFORMATION AND CONTACT DETAILS

CORPORATE OFFICE

Sujana Energy Limited
18, Nagarjuna Hills
Punjagutta
Hyderabad-500 072,
Andhra Pradesh, INDIA

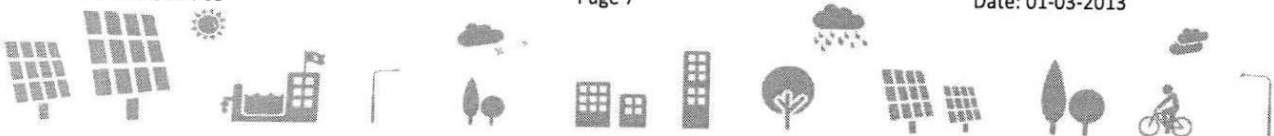
PRIMARY CONTACTS

Name: Amish Jain
Designation: Deputy Manager – BD, Solar Business Unit
Contact Number: Mob: +91 8886110269
Tel: +91-40-23350953
Fax: +91-40-23350963
Email: amish.jain@sujana.com

ALTERNATE CONTACT

Name: Jeewak Suresh Jadhav
Designation: Manager – BD, Solar Business Unit
Contact Number: Mob: +91 88869 99305
Email: jeewak.jadhav@sujana.com

2/3/13



to Mr. Sharma

SUKATA

KW

DESCRIPTION	RATING	BASIC	VAT @ 5%	TOTAL	QTY	TOTAL
PCU1000x24SP11DX11	1 KVA	19202	960	20162	1	20162
TUBULAR BATTERIES	180 AH	13780	689	14469	2	28938
SOLAR PANELS	1000 WP	58000	2900	60900	1 SET	60900
TOTAL PACKAGE PRICE @ 5% VAT						110000

DESCRIPTION	RATING	BASIC	VAT @ 5%	TOTAL	QTY	TOTAL
PCU2000x48SP11DX11	2 KW	28400	1420	29820	1	29820
TUBULAR BATTERIES	180 AH	13780	689	14469	4	57876
SOLAR PANELS	1000 WP	58000	2900	60900	1 SET	60900
TOTAL PACKAGE PRICE @ 5% VAT						148596

W - Copper Transformer - increase 4,000 to 5,000.
 32A Charge controller - 4,000/-
 Data logger

28,938 x 2

for 30/3/13

upgradation!

Branch manager
 Mr. plan
 Amul Reddy, BDM - Sales
 9177819000

for 1/4/13

Monday - 1-4-13

To,

Mr. Subham

Please see break up of 'Subham' quote.

1 KW - Rs 20,162

upgradation 2 KW - Rs 29,820.

Rs 9,658 = more.

- Because of
Copper transformer - increase - Rs 4,000 to Rs 5,000 =.
- 32A relay switch. - controller
data logging.

P.T.O.

Purchase

From: "Raja Gopal" <rgopal@su-kam.com>
To: <purchase@modiproperties.com>
Cc: "V.Phani Kumar" <vp.kumar@su-kam.com>; "Anil Reddy G" <anil.reddy@su-kam.com>
Sent: Saturday, March 02, 2013 11:35 AM
Attach: Technical proposal for 1kWp stellar.pdf; Technical proposal for 1kWp with 2KVA stellar.pdf; price quote for modi properties.docx
Subject: FW: proposal and quote for modi properties.

Sir
 In this attachment
 25 pages is there
 Sir

Dear Sir,

Please find the enclosed commercial proposal for solar power plants.

Thanks & Regards

Rajagopal.K
 Area Sales Manager
 Su-Kam Power Systems Ltd.
 H No : 1-11-254/1, 1st Floor
 Motilal Nagar, Begumpet
 Lane Beside SBH Zonal Office
 Hyderabad- 500016,
 Tel : +91-40-27717628
 Mob :+91-98854 56333.
 Email : rgopal@su-kam.com

Corporate Office:
 Su-Kam Power Systems Ltd.
 54, Udyog Vihar, Phase VI, Sector-37
 Gurgaon - 122001, Haryana, India
 Tel : +91-124-4170500
 Fax :+91-124-4038702,4038700
 www.su-kam.com

SMU
 3/3/13

02-Mar-13

Su-Kam Power Systems Limited.

Date: 01.03.2013

Dear Sir,

Subject: Quotation for solar packages

We thank you for your enquiry and interest shown in Su-Kam Power Systems Limited, for the above requirement.

As you are aware, M/S Su-Kam Power Systems Limited is the largest manufacturer of power backup solutions. It has 5 manufacturing plants and 28 branch offices all over the world.

We are pleased to submit you our best proposal for power backup products.

We have put-in our best efforts to ensure that all your requirements are met and we do keenly look forward towards your valued order. Should you meanwhile require clarification or any assistance from us, we are at your service.

Thanking you and assuring you of our best services at all times, we remain.

Yours sincerely,

For Su-Kam Power Systems Limited

ANIL REDDY.G

E: anil.reddy@su-kam.com

Sum
3/3/13

Quotation for 1KW solar power pack.

Kind Attention

Date: 01/03/13

SI No.	Project	Technical Specification	Warranty	Quantity	Unit Price (INR)	Total Price (INR)
1	1KW solar power pack	1kW	3 years	1	115000	115000
2	1KW solar power pack with 2KVA solar power conditioning unit	1KW/2KVA	3 years	1	157500	157500
Taxes are extra.						

Terms and Conditions:

1. 100% advance.
2. Prices are exclusive of taxes and valid for 30 days.
3. Delivery shall be made within 10 days from the date of receipt of confirmed purchase order.
4. Warranty on system will be of 3 years after product validation.
5. The above prices include structure and installation charges.
6. The prices are subject to Hyderabad region.

SU-KAM POWER SYSTEMS LIMITED

VSC

Sl.no	Villa no	Solar required Yes/no	Completion by
1	2	Yes ✓	JUL'13
2	4	pending	
3	5	pending	
4	6	pending	
5	7	Yes ✓	Sept'13
6	18	pending	
7	19	Yes ✓	AUG'13
8	20	Yes ✓	AUG'13
9	21	Yes ✓	AUG'13
10	22	Yes ✓	AUG'13
11	23	Yes ✓	AUG'13
12	24	Yes ✓	AUG'13
13	25	Yes ✓	AUG'13
14	26	Yes ✓	AUG'13
15	27	Yes ✓	AUG'13
16	34	Yes ✓	AUG'13
17	39	pending	
18	40	pending	
19	41	pending	
20	42	Yes ✓	AUG'13
21	43	Yes ✓	AUG'13
22	44	yes ✓	FEB'14

MAYURI YOGESH SHAH

16/02/13



15 nos
x 1 kw
= 15 kw.

VSC

Sl.no	Villa no	Solar required Yes/no	Completion by
1	2	Yes	JUL'13
2	4	pending	
3	5	pending	
4	6	pending	
5	7	Yes	Sept'13
6	18	pending	
7	19	Yes	AUG'13
8	20	Yes	AUG'13
9	21	Yes	AUG'13
10	22	Yes	AUG'13
11	23	Yes	AUG'13
12	24	Yes	AUG'13
13	25	Yes	AUG'13
14	26	Yes	AUG'13
15	27	Yes	AUG'13
16	34	Yes	AUG'13
17	39	pending	
18	40	pending	
19	41	pending	
20	42	Yes	AUG'13
21	43	Yes	AUG'13
22	44	yes	FEB'14

MAYURI YOGESH SHAH


16/02/13

Copy given to MD

M.S. Rao
16/2/13

Breakup for Solar Power Systems for VSC, Ph-VII, Cherlapally.

S.No.	Item	Unit	Price	VAT	Total Amount
1	Solar Panel 1000 WP, 1 KW	1	56,000.00	2,800.00	58,801.00
2	PCU - 2 KVA	1	28,400.00	1,420.00	29,821.00
3	Tubular Batteries 180 AH	4	13,780.00	7,992.40	63,112.40
	Total				151,734.40

- Note: 1) Transport charges included
2) Installation charges Rs. 12,000 to 15,000/- approx.
3) Warranty: 1) Solar Panel - 25 years
2) Power Conditioning Unit - 2 years
3) Tubular Battery - 3 years
4) Civil works under builders purview.

MNRE Channel Partner

24/7 POWER AT YOUR SERVICE @ ₹2.50/UNIT

Anu Smart Solar Power Generators are powered by German Technology which makes it more efficient and cost effective. It is easy to install and can power your home, business place or industry.

It's a one time investment that provides uninterrupted, economical, reliable and clean power at a fixed price of just ₹2.50/ unit, for years to come.

NEARLY
3 DECADES OF
ANU EXPERTISE

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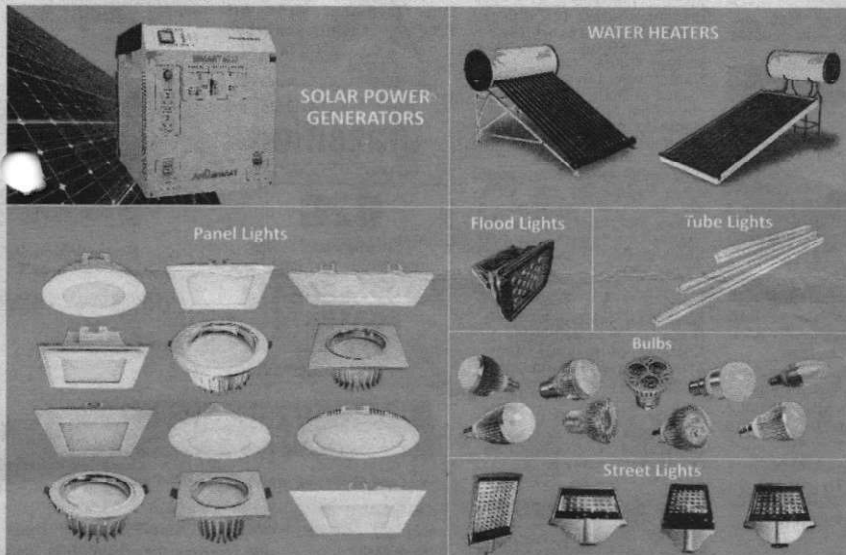
HIGH END
GERMAN
TECHNOLOGY

+

30%
GOVT. SUBSIDY

+

EASY
INSTALMENTS



**ANU
WORLD**

CUSTOMER EXPERIENCE CENTRE

SECUNDERBAD:

No. 2-3-7, Citizen Estate,
Besides ICICI Bank, M.G. Road - 500 003
Ph: 040-27843343 / 9394760582 /
9676360007 / 9030942871
E-mail: kalmadisolar@gmail.com

HYDERABAD: 9000668825 / 9959922133, VISAKHAPATNAM: 9912358143, NIZAMABAD:
9866763371, ADILABAD: 9701276874, RP ROAD: 9849090553

Anu Solar Power Pvt. Ltd. (An Indo-German Initiative)

Bangalore - 560 058. Ph: +91-80-43550200 / 9845606916 / 9900466602 / 9731313065 / 9731221133
9611011866 / 9742071515 | www.anusolar.com | Customer Care: +91 80 43550203 (24x7 IVR Support)

Certifications & Approvals



DGS&D

Govt. of India
MNRE



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\$\$\$-MADONNA-\$\$\$ Body Massage by North & South Staff with Excellent Relaxation in Ur Body&Mind at Cool Atmo.9668953724/ 9849616048.

*****MODELS-EXCELLENT**** NORTH & SOUTH MALE & FEMALE staff available full Body Massage full Relaxation. Contact: 9553677064

PERSONAL

ANNOUNCEMENTS

CHANGE OF NAME

I, Anantha Krishnan S/o Kannabiran Mudaliar Presently R/o:103,Amulya Castle Plot 8 Malani Enclave, Trimulgherry, Sec'bad-15 with Permanent Address In India At Old No:84, Third Cross, Mettu Street, Athipet, Chennai 600058, Holder Of Passport No:B3774593 dated 16/01/2002 Issued at Delhi Intend to De-clare That I have changed my Name As Anantha Krishnan Kannabiran for all Purposes.

I, Gandhapuneti Ramanasri Alias Padma Sri R/o: F.No: 202, Sri Sai Nivas, Anjaneya Nagar, Moosapet, Hyd-18. AP changed my name as "Kasturi Ramanasri" W/o: Kasturi Subba Rao

I, B.Binu Raj R/o: F.NO: G3, Hema Durga Jewel, PJR Enclave, Madinaguda, Hyd have changed my name as Binu Raj for all purposes.

I, Sharon Fedricks R/o: 202, Sai Kiran Apts, Begumpet, Hyderabad - 500016, have changed my name to Sharon Latouche.

HEALTH CLUB/ PHYSICAL FITNESS

LOSE Weight Scientifically & Safely from Home. Approved by Govt of India. 30 days money back Guarantee. Serious ppl: +91 9700029745.

LOST & FOUND

Y.VISHNU Vardhan s/o. Y.Goverdhan H.No:8-5-2, F.No:102, Sunanda Apts. Old Bowenpally-500011. Lost my Link Document Bearing No:6625 of 2006 along with Original plan copy, if anybody finds please Call: 9160222333

I, Durgavajjula Anupama, W/o. D. Sivajee Age: 43 Yrs H.No. 1-10-18, Ashoknagar, Hyd. Pass-port No.B-1878639. I lost my passport in Ashoknagar if found plz Contact: 9885047946

I, Ali Hussain S/o: Ali Arif, while travelling from Fatema Colony, Baragalli to Hussain-alam on 02-04-2013 between 4.30 & 5.00PM. Lost my Emergency Certificate No: 145935, Dated: 19-01-2009, issued from Jeddah, Proceed- ing No: A4-31/2005/FRO/- CHN-AP/2004, Dated: 21-01-2009, If anyone Got Pls Inform Cell: 8686877131

GREETINGS & CELEBRATIONS

FRIENDSHIP

JANNAT Friendship Club Meet Hiprofile Male Female Housewife Enjoy+ Good Earn- ing. Contact: 9019579057

MESSAGES

PERSONAL

LOVELY Com - fun + Chat / Entertainment and All Programe Facility Available. Contact Number : 9542714074.

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B2C

1-7-233/1, Opp. Round Building, Kamlanagar, Ecil X Roads

Mob: 9246568474 66318474

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OBITUARY

HOMAGE

कर्मप्रेवाधिकारस्ते मा फलेषु कदायन ।
 मा कर्मफलहेतुर्बुभा ते सदोऽस्त्वमकर्मणि ॥



Dr. Chandrashekhar J. Jahagirdar

Passed away peacefully
 on 01/04/2013

Deeply mourned by:-
 Smt. Aparna Jahagirdar
 and a vast family of friends,
 relatives and admirers.

JAY KUMAR B.N.
9030942871



PRODUCT LINE

Ann Solar Power pioneered solar technology in India, nearly three decades ago, and has been a vital cog in the growth and development of the renewable energy sector in the country. The organization shares a deep commitment to developing world-class renewable energy products for the Indian masses, at affordable rates.

One of a handful of companies with an accomplished R&D team, Anu Solar Power has developed and customized a host of products - from solar water heaters, to LED lights and solar generators - for the Indian market.

We offer flat plate, and evacuated tub collector solar water heaters for both domestic and industrial use. Our range of LED lights are assembled at our state-of-the-art factory in Bangalore, and our solar generator is deemed as one of the finest in the industry.

BRAND ANU, IN BRIEF





Cute ETC Solar water heaters have grown in acceptability for both domestic and commercial use. The advantages of an ETC system are many. This system can quickly heat and retain the heat even when it is very cold outside. The ETC has a superior incidence angle modifier, so it collects solar energy more evenly throughout the day resulting in a lower buffer or thermal storage requirement. A solar water heater with an evacuated tube collector is ideal for all parts of India, in all seasons - summer, winter, or rain.

FLAT 100% OFF ON POWER BILLS.



5 YEARS
GUARANTEE



30% OFF
GOVERNMENT SUBSIDY

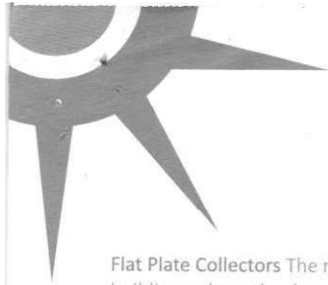


70% SAVINGS
ON ELECTRICITY



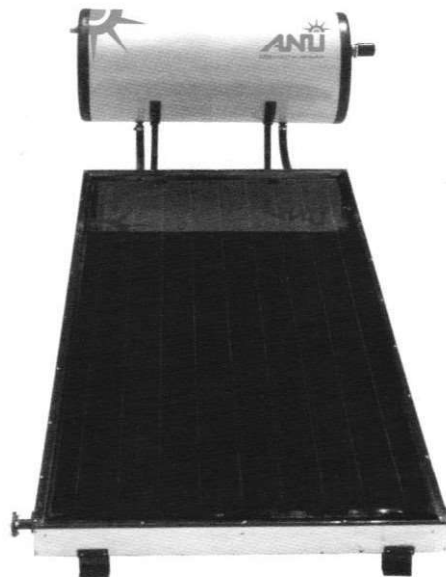
Available from 100 LPD
to 1000 LPD and more.





Flat Plate Collectors The main use of this technology is in residential buildings where the demand for hot water has a large impact on energy bills. This means a situation with a family - where hot water can be used for bathing, washing clothes to make them hygienic, washing utensils to make them germ free, car washes, cleaning floors etc. The technology can also be used for space heating if the building is located off-grid or if utility power is subject to frequent outages. FPC is cost-effective, and pays for itself in the electricity bills saved. It can be deployed virtually anywhere in the country.

FLAT 100% OFF ON POWER BILLS.



Available from 100 LPD
to 1000 LPD and more.

AJAY KUMAR B.N.
9030942871

 **5 YEARS**
GUARANTEE

 **30% OFF**
GOVERNMENT SUBSIDY

 **70% SAVINGS**
ON ELECTRICITY


solarpower HEAT | LIGHT | ELECTRICITY



BRAND ANU, IN BRIEF

- Anu Solar Power pioneered solar technology in India, nearly three decades ago, and has been a vital cog in the growth and development of the renewable energy sector in the country. The organization shares a deep commitment to developing world-class renewable energy products for the Indian masses, at affordable rates.
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- We offer flat plate, and evacuated tub collector solar water heaters for both domestic and industrial use. Our range of LED lights are assembled at our state-of-the-art factory in Bangalore, and our solar generator is deemed as one of the finest in the industry.



PRODUCT LINE

Solar Water Heaters, Solar Powered LED Lights and Solar Generators

FACTORY



R&D



PRODUCTION



MANAGEMENT



SERVICING



CONSULTANTS



CERTIFICATIONS



MNRE

Ministry of New and Renewable Energy

DGS&D

Directorate General of Supplies & Disposals



Bureau of Indian Standards

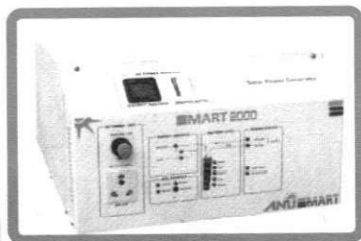
KALMADI SOLAR SYSTEMS
D. No. 2-3-7, Citizen Estate,
M.G. Road, SECUNDERABAD-500 003.



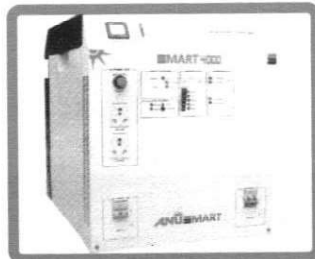
Anu Solar Power Private Limited
An ISO 9001 : 2008 Company
www.anusolar.com

2,300 watts peak

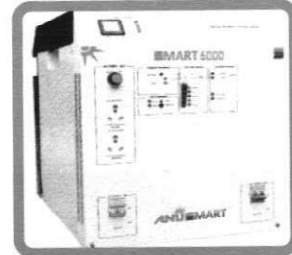
Smart 2000



Smart 4000



Smart 6000



Technical Data

Electrical Specifications

Continuous power (P _{nom}) @25 C	2000W
Surge rating @ 25 C	6000W (5 Sec)
Idle consumption	< 3 W
Solar P.V connected	2000 Wp
Solar charge controller Rating	50 A DC
Output waveform	True sine waves
Peak efficiency	98%
Transfer time	< 12 ms
AC connections	AC grid or generator
AC input/pass through current	1 - 50A DC
AC input voltage range	180 - 250 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	220V - 240 VAC
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	<3%
DC operating range	21.6 - 32V DC
Charging type	PWM 4-Stage
Max. Charging current (I _{sc})	50 A DC
Max. PV open circuit voltage (U _{oc})	46 V DC
Operation mode for Auxiliary Contact	Auto / Manual
Power factor corrected charging	0.98
Nominal DC input voltage	24 VDC

Protection

AC/DC Short-circuit	automatic disconnection
AC/DC Overload	automatic shutdown
Over temperature	auto shutdown with auto restart (after cooling)
L.V.D	AC power cut off
Battery. Reverse polarity	DC fuse protected
Battery input circuit breaker	200A DC
AC input circuit breaker	NA
DC battery use	200A (10 x 20A)
DC solar input fuse	2 x 40A DC

General Specifications

Dimensions (H*B*L)	260x 550x445mm
Weight	48 Kg

Electrical Specifications

4000W
12000W (5 Sec)
< 5 W
4000 Wp
100 A DC
True sine waves
98%
< 15 ms
AC grid or generator
1 - 50A DC
180 - 250 VAC
45 - 65Hz
220V - 240 VAC
50 Hz +/- 0.1 Hz
<3%
43.2 - 64V DC
PWM 4-Stage
120 A DC
92 V DC
Auto / Manual
0.98
48 VDC

Protection

automatic disconnection
automatic shutdown
auto shutdown with auto restart (after cooling)
AC power cut off
DC fuse protected
200A DC
50A DC
200A (10 x 20A)
3 x 40A DC

General Specifications

620x475x570mm
85 Kg

Electrical Specifications

6000W
18000W (5 Sec)
< 5 W
6000 Wp
100 A DC
True sine waves
98%
< 15 ms
AC grid or generator
1 - 50A DC
180 - 250 VAC
45 - 65Hz
220V - 240 VAC
50 Hz +/- 0.1 Hz
<3%
43.2 - 64V DC
PWM 4-Stage
120A DC
92 V DC
Auto / Manual
0.98
48 VDC

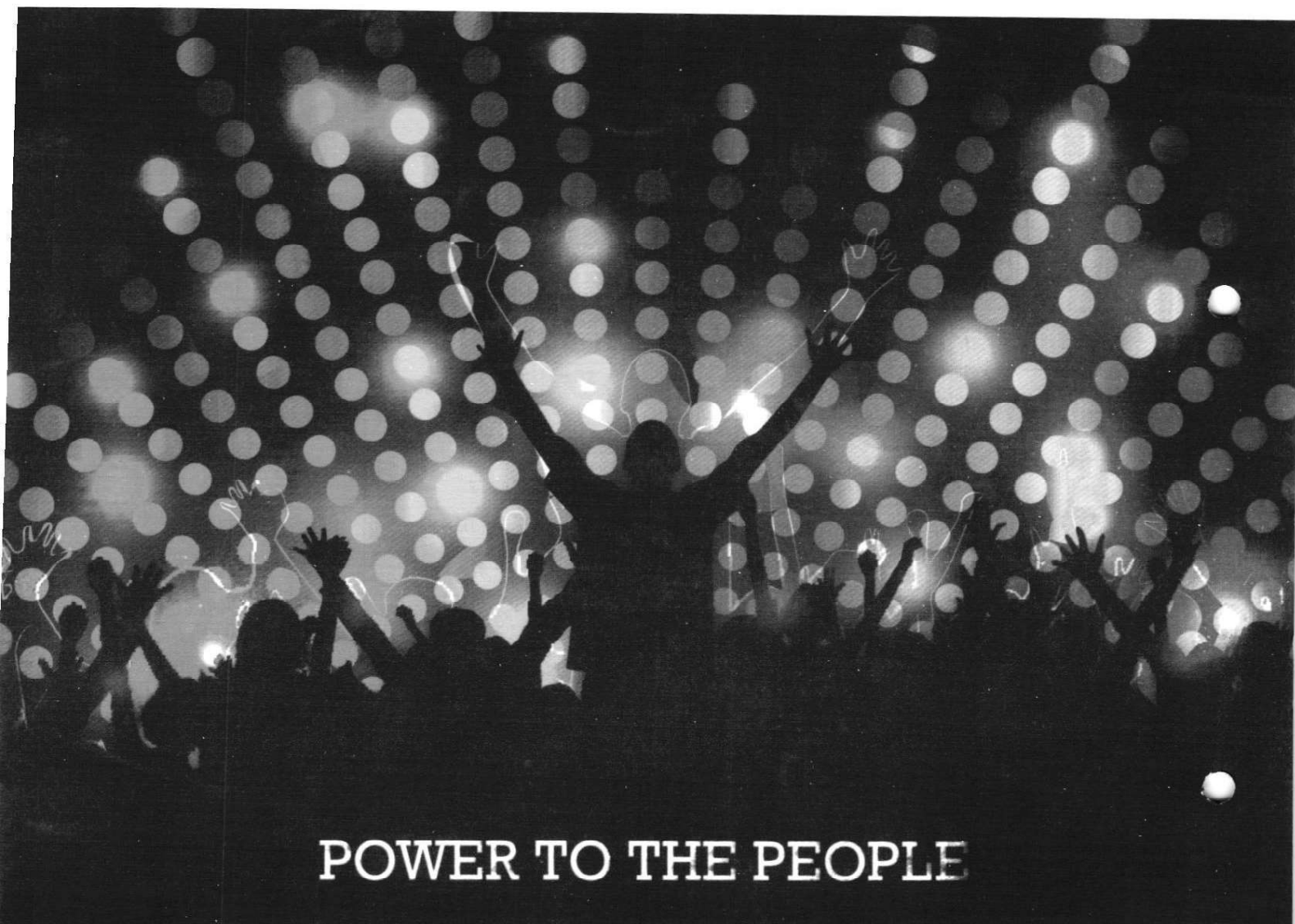
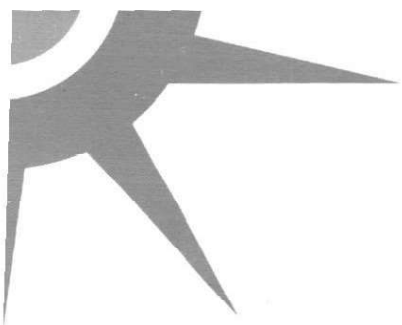
Protection

automatic disconnection
automatic shutdown
auto shutdown with auto restart (after cooling)
AC power cut off
DC fuse protected
200A DC
50 A DC
200A (10 x 20A)
3 x 40A DC

General Specifications

620x 475x570mm
100 Kg

Smart Generators from Anu Smart



POWER TO THE PEOPLE

Anu World (Kalmadi Solar systems)

2-3-7, Citizen Estate, 1st Floor,
M.G Road, Secunderabad - 500 003.

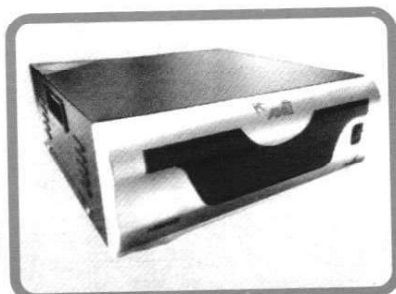
Ph. : 040- 27843343

Email : kalmadisolar@gmail.com

kalmadisolar@yahoo.in


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AG1000W



Technical Data

Electrical Specifications

Continuous power (Pnom) @25 C	1000 W
Solar panels connected	1000 W
Solar charge controller rating	50A DC
Output waveform	True sine waves
Peak efficiency	90%
Idle consumption	< 12 W
AC connections	AC grid
AC input/grid charging	1 - 5 A DC
AC input voltage range	150 - 280 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	200V - 230 VAC
AC output current range	4-5 A AC
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 6%
DC operating range	21.6 - 32V
Charging type	PWM CCCV
Max. solar Charging current (Isc)	40 A DC
Max. PV open circuited voltage (Uoc)	48 V DC
Power factor corrected charging	0.8
Nominal DC input voltage	24 VDC

Protection

Overload Pre-alarm & cut-off (VDC)	automatic shutdown
Low voltage load disconnect	automatic disconnection

General Specifications	
Dimensions (H*B*L)	150 x 335 x 330mm
Weight	17 Kg

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Anu World (Kalmadi Solar systems)

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AG1500W



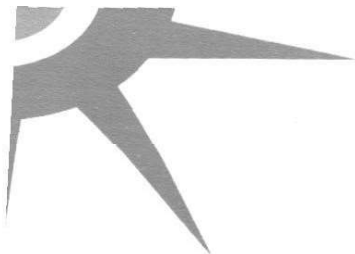
Electrical Specifications

Continuous power (Pnom) @25 C	1500W
Solar panels connected	1500W
Solar charge controller rating	50A DC
Output waveform	True sine waves
Peak efficiency	90%
Idle consumption	< 20 W
AC connections	AC grid
AC input/grid charging	1 - 5 A DC
AC input voltage range	150 - 280 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	200V - 230 VAC
AC output current range	5.5-7.5 A AC
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 6%
DC operating range	21.6- 32V
Charging type	PWM CCCV
Max. solar Charging current (Isc)	70 A DC
Max. PV open circuited voltage (Uoc)	48 V DC
Power factor corrected charging	0.8
Nominal DC input voltage	24 VDC

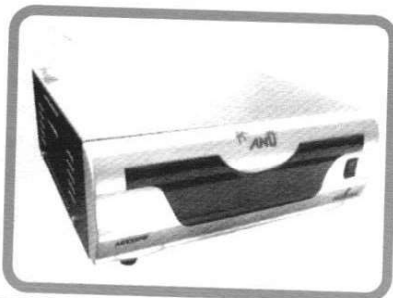
Protection

Overload Pre-alarm & cut-off (VDC)	automatic shutdown
Low voltage load disconnect	automatic disconnection

General Specifications	
Dimensions (H*B*L)	230 x 380 x 290mm
Weight	25 Kg



AG300W



Technical Data

Electrical Specifications

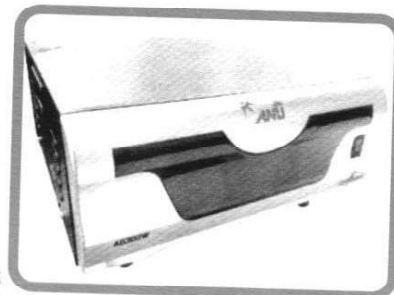
Continuous power (Pnom) @25 C	300W
Solar panels connected	300W
Solar charge controller rating	30A DC
Output waveform	True sine waves
Peak efficiency	90%
Idle consumption	< 7 W
AC connections	AC grid
AC input/grid charging	1 - 2 A DC
AC input voltage range	150 - 280 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	200V - 230 VAC
AC output current range	1.3-1.6 A ac
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 6%
DC operating range	10.8 - 16V
Charging type	PWM CCCV
Max. solar Charging current (Isc)	20 A DC
Max. PV open circuite voltage (Uoc)	24 V DC
Power factor corrected charging	0.8
Nominal DC input voltage	12 VDC

Protection

Overload Pre-alarm & cut-off (VDC)	automatic shutdown
Low voltage load disconnect	automatic disconnection

General Specifications	
Dimensions (H*B*L)	150 x 335 x 330mm
Weight	11 Kg

AG600W



Electrical Specifications

Continuous power (Pnom) @25 C	600W
Solar panels connected	600W
Solar charge controller rating	30A DC
Output waveform	True sine waves
Peak efficiency	90%
Idle consumption	< 10 W
AC connections	AC grid
AC input/grid charging	1 - 2 A DC
AC input voltage range	150 - 280 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	200V - 230 VAC
AC output current range	2.3-3.2 A ac
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 6%
DC operating range	10.8 - 16V
Charging type	PWM CCCV
Max. solar Charging current (Isc)	20 A DC
Max. PV open circuite voltage (Uoc)	24 V DC
Power factor corrected charging	0.8
Nominal DC input voltage	12 VDC

Protection

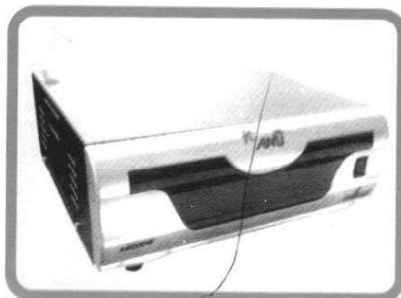
Overload Pre-alarm & cut-off (VDC)	automatic shutdown
Low voltage load disconnect	automatic disconnection

General Specifications	
Dimensions (H*B*L)	150 x 335 x 330mm
Weight	13 Kg



Gallent Generators from Anu Solor

AG300W



Technical Data

Electrical Specifications

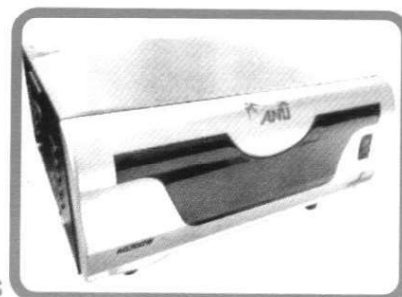
Continuous power (Pnom) @25 C	300W
Solar panels connected	300W
Solar charge controller rating	30A DC
Output waveform	True sine waves
Peak efficiency	90%
Idle consumption	< 7 W
AC connections	AC grid
AC input/grid charging	1 - 2 A DC
AC input voltage range	150 - 280 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	200V - 230 VAC
AC output current range	1.3-1.6 A ac
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 6%
DC operating range	10.8 - 16V
Charging type	PWM CCCV
Max. solar Charging current (Isc)	20 A DC
Max. PV open circuite voltage (Uoc)	24 V DC
Power factor corrected charging	0.8
Nominal DC input voltage	12 VDC

Protection

Overload Pre-alarum & cut-off (VDC)	automatic shutdown
Low voltage load disconnect	automatic disconnection

General Specifications	
Dimensions (H*B*L)	150 x 335 x 330mm
Weight	11 Kg

AG600W



Electrical Specifications

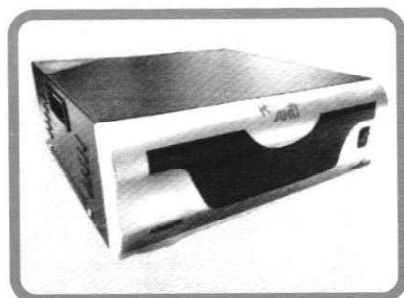
Continuous power (Pnom) @25 C	600W
Solar panels connected	600W
Solar charge controller rating	30A DC
Output waveform	True sine waves
Peak efficiency	90%
Idle consumption	< 10 W
AC connections	AC grid
AC input/grid charging	1 - 2 A DC
AC input voltage range	150 - 280 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	200V - 230 VAC
AC output current range	2.3-3.2 A ac
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 6%
DC operating range	10.8 - 16V
Charging type	PWM CCCV
Max. solar Charging current (Isc)	20 A DC
Max. PV open circuite voltage (Uoc)	24 V DC
Power factor corrected charging	0.8
Nominal DC input voltage	12 VDC

Protection

Overload Pre-alarum & cut-off (VDC)	automatic shutdown
Low voltage load disconnect	automatic disconnection

General Specifications	
Dimensions (H*B*L)	150 x 335 x 330mm
Weight	13 Kg

AG1000W



Technical Data

Electrical Specifications

Continuous power (Pnom) @25 C	1000 W
Solar panels connected	1000 W
Solar charge controller rating	50A DC
Output waveform	True sine waves
Peak efficiency	90%
Idle consumption	< 12 W
AC connections	AC grid
AC input/grid charging	1 - 5 A DC
AC input voltage range	150 - 280 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	200V - 230 VAC
AC output current range	4-5 A AC
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 6%
DC operating range	21.6 - 32V
Charging type	PWM CCCV
Max. solar Charging current (Isc)	40 A DC
Max. PV open circuite voltage (Uoc)	48 V DC
Power factor corrected charging	0.8
Nominal DC input voltage	24 VDC

Protection

Overload Pre-alaram & cut-off (VDC)	automatic shutdown
Low voltage load disconnect	automatic disconnection

General Specifications	
Dimensions (H*B*L)	150 x 335 x 330mm
Weight	17 Kg

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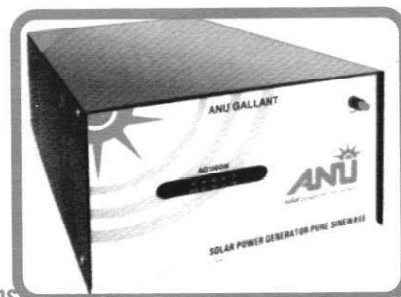
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AG1500W



Electrical Specifications

Continuous power (Pnom) @25 C	1500W
Solar panels connected	1500W
Solar charge controller rating	50A DC
Output waveform	True sine waves
Peak efficiency	90%
Idle consumption	< 20 W
AC connections	AC grid
AC input/grid charging	1 - 5 A DC
AC input voltage range	150 - 280 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	200V - 230 VAC
AC output current range	5.5-7.5 A AC
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 6%
DC operating range	21.6 - 32V
Charging type	PWM CCCV
Max. solar Charging current (Isc)	70 A DC
Max. PV open circuite voltage (Uoc)	48 V DC
Power factor corrected charging	0.8
Nominal DC input voltage	24 VDC

Protection

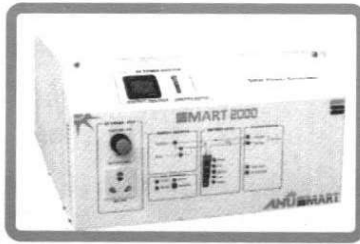
Overload Pre-alaram & cut-off (VDC)	automatic shutdown
Low voltage load disconnect	automatic disconnection

General Specifications	
Dimensions (H*B*L)	230 x 380 x 290mm
Weight	25 Kg

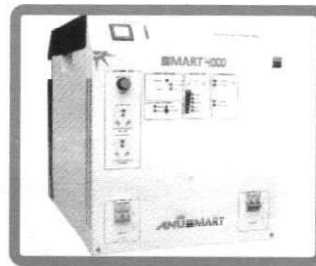
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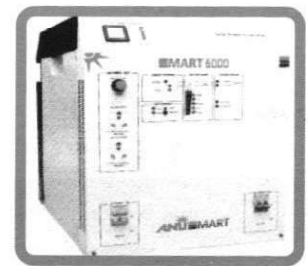
Smart 2000



Smart 4000



Smart 6000



Technical Data

Electrical Specifications

Continuous power (Pnom) @25 C	2000W
Surge rating @ 25 C	6000W (5 Sec)
Idle consumption	< 3 W
Solar P.V connected	2000 Wp
Solar charge controller Rating	50 A DC
Output waveform	True sine waves
Peak efficiency	98%
Transfer time	< 12 ms
AC connections	AC grid or generator
AC input/pass through current	1 - 50A DC
AC input voltage range	180 - 250 VAC
AC input frequency range	45 - 65Hz
AC output voltage range	220V - 240 VAC
Frequency	50 Hz +/- 0.1 Hz
Total harmonic distortion	< 3%
DC operating range	21.6 - 32V DC
Charging type	PWM 4-Stage
Max. Charging current (Isc)	50 A DC
Max. PV open circuite voltage (Uoc)	46 V DC
Operation mode for Auxiliary Contact	Auto / Manual
Power factor corrected charging	0.98
Nominal DC input voltage	24 VDC

Protection

AC/DC Short-circuit	automatic disconnection
AC/DC Overload	automatic shutdown
Over temperature	auto shutdown with auto restart (after cooling)
L.V.D	AC power cut off
Battery. Reverse polarity	DC fuse protected
Battery input circuit breaker	200A DC
AC input circuit breaker	NA
DC battery use	200A (10 x 20A)
DC solar input fuse	2 x 40A DC

General Specifications

Dimensions (H*B*L)	260x 550x445mm
Weight	48 Kg

Electrical Specifications

4000W
12000W (5 Sec)
< 5 W
4000 Wp
100 A DC
True sine waves
98%
< 15 ms
AC grid or generator
1 - 50A DC
180 - 250 VAC
45 - 65Hz
220V - 240 VAC
50 Hz +/- 0.1 Hz
< 3%
43.2 - 64V DC
PWM 4-Stage
120 A DC
92 V DC
Auto / Manual
0.98
48 VDC

Protection

automatic disconnection
automatic shutdown
auto shutdown with auto restart (after cooling)
AC power cut off
DC fuse protected
200A DC
50A DC
200A (10 x 20A)
3 x 40A DC

General Specifications

620x475x570mm
85 Kg

Electrical Specifications

6000W
18000W (5 Sec)
< 5 W
6000 Wp
100 A DC
True sine waves
98%
< 15 ms
AC grid or generator
1 - 50A DC
180 - 250 VAC
45 - 65Hz
220V - 240 VAC
50 Hz +/- 0.1 Hz
< 3%
43.2 - 64V DC
PWM 4-Stage
120A DC
92 V DC
Auto / Manual
0.98
48 VDC

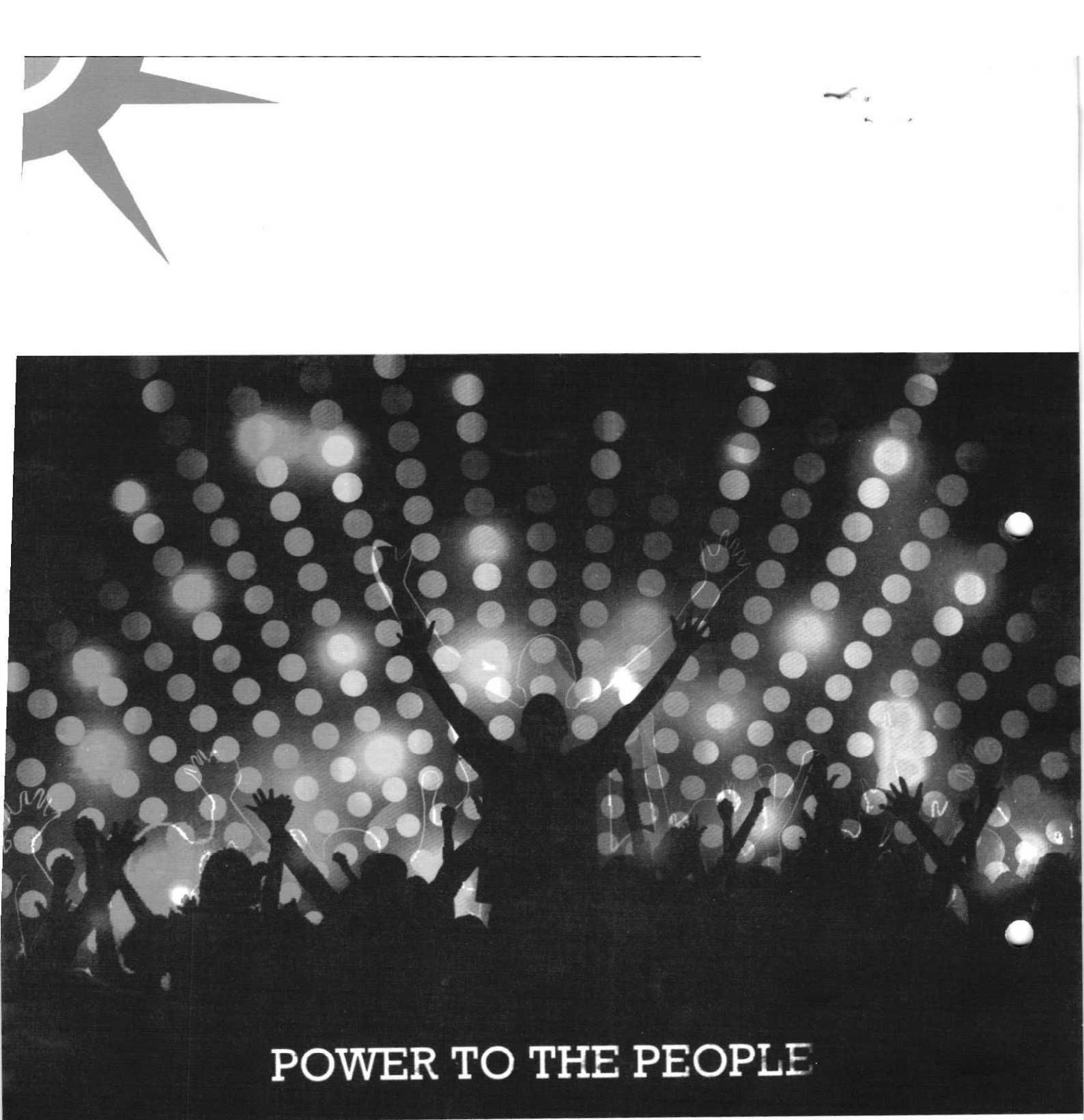
Protection

automatic disconnection
automatic shutdown
auto shutdown with auto restart (after cooling)
AC power cut off
DC fuse protected
200A DC
50 A DC
200A (10 x 20A)
3 x 40A DC

General Specifications

620x 475x570mm
100 Kg

Smart Generators from Anu Smart



POWER TO THE PEOPLE

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