[HOLCASE # 35] 13-13 H] CHEVY CHASE HISTORIC DISTRICT



### HISTORIC PRESERVATION COMMISSION

Isiah Leggett
County Executive

Leslie Miles Chairperson

Date: February 19, 2013

### **MEMORANDUM**

TO:

Diane R. Schwartz Jones, Director

Department of Permitting Services

FROM:

Karen Theimer Brown, Senior Planner (TO

**Historic Preservation Section** 

Maryland-National Capital Park & Planning Commission

SUBJECT:

Historic Area Work Permit #624107, for installation of solar panels

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was <u>approved</u> at the February 13, 2013 meeting.

Applicant:

Roger and Elizabeth Marmet

Address:

19 Quincy Street, Chevy Chase



DPS - #8



### HISTORIC PRESERVATION COMMISSION 301/563-3400

# APPLICATION FOR HISTORIC AREA WORK PERMIT

•	D Mag
CORRECT BEALLS RMARMETE COMCAST. NET	Contract Person KOGER LINKMET
Contract Con	Taylorne Phane No.: 301: 706-7127
Tex Account No.:	
Name of Property Owner: ROGER + ELIZABETH MARMET O	zytine Phone No.:
Address: 19 QUINCY ST CHEVY CH	ASE MD 20815
Street Mamber City	Steet In Code
Contractor: SOLAR CITY Contractor Registration No.: MD MHIC 128948	Phone No.: <u>888 - 765 - 2487</u>
Contractor Registration No.: MD /VIHIC 128948	
Agent for Owner:	aytime Phone No.:
COPATION OF BUILDING PROPERTY	
House Number 19	QUINCY ST
TownsCity: CHEVY CHASE Nearest Cross Street	Brookville / connecticut
Lot 20 Block 61 Subdivision: Section	2 - Chery Chase Villas
Liber: Folie: Peret	
PARTO E MERCEN DESCRIPTION AND DE	
1A. CHECK ALL APPLICABLE CHECK ALL APPL	CARLE
☐ Construct ☐ Extend ☐ Altar/Renovate ☐ A/C ☐ Sie	b GRoom Addition GRoom Gleck GShed
☐ Meve 🔀 Install 🗆 Wheck/Raze 🥱 Solar 🗆 Fire	nplace   Weodburning Stove   Single Femily
	omplies Section 4) 🔲 Other:
IB. Construction cost estimate: \$ 1900.00	
1C. If this is a revision of a previously approved active permit, see Permit #	
White was the stand for his visions under not the being a vision one.	
	03 (2) Other:
28. Type of water supply: 01 🗍 WSSC 02 🗍 Well	03 🗆 Other.
ZUMBURA (GULLARA) MALIKARA/ZUMBUWAN	
3A. Height lest inches	
18. Indicate whether the fance or retaining wall is to be constructed on one of the following	ne locations:
□ On party fine/property line □ Entirely on land of owner □	
de de la company	on position in the contract of
#	
I hereby cartify that I have the authority to make the foregoing application, that the applica	
I hereby cartify that I have the authority to make the foregoing application, that the application approved by all agencies listed and I hereby extraowledge and accept this to be a condition	
	n for the issuence of this permit.
approved by all agencies listed and I hereby ectnowledge and accept this to be a condition	n for the issuence of this permit.
approved by all agencies listed and I hereby acknowledge and accept this to be a condition of the second se	in for the issuence of this permit.    1/22/2013     Date     Sisteric Preservation Commission
approved by all agencies listed and I hereby acknowledge and accept this to be a condition to be a condition of supported by all agencies to be a condition of supported by a condition of supporte	in for the issuence of this permit.    1/22/2013     Date     Sisteric Preservation Commission
approved by all agencies listed and I hereby acknowledge and accept this to be a condition to be a condition of support of some or authorized agent.  Approved:	for the issuence of this permit.    1/22/2013

Edit 6/21/99

SEE REVERSE SIDE FOR INSTRUCTIONS

### THE FOLLOWING ITEMS MUST BE COMPLETED AND THE REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.

1.	WRITTEN DESCRIPTION OF PROJECT
	a Description of existing structura(s) and environmental setting, including their historical features and significance:  1925 White clapboard wood house
	with attacked garage on Quincy ST
	in Chery Chase Village.
	b. General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district:
	Install 6 soler panels on rear portion
	of garage roof, Panels will be on
	back side of house and will have
	no impact on Tonistoric facade of
	house limited visibility in this desint
	location
2.	SITE PLAN

Site and environmental setting, drawn to scale. You may use your plet. Your site plan must include:

- a, the scale, north arrow, and date;
- b. dimensions of all existing and proposed structures; and
- c. site features such as welltways, driveways, fences, ponds, streams, trash dumpstors, mechanical equipment, and landscaping.

### 3. PLANS AND ELEVATIONS

You must submit 2 copies of plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" paper are preferred.

- a. Schemetic coestruction plans, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.
- Elevations (facades), with marked dimensions, clearly indicating proposed work in relation to existing construction and, when appropriate, context.
   All metarials and flutures proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

### 4. MATERIALS SPECIFICATIONS

General description of materials and menufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

### 5. PHOTOGRAPHS

- Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.
- Closely label photographic prints of the resource as viewed from the public right-of-way and of the adjoining properties. All labels should be placed on the tront of photographs.

### 6. TREE SURVEY

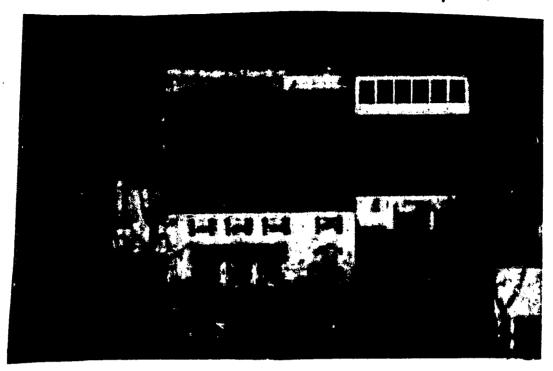
If you are proposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree of at least that dimension.

### 7. ADDRESSES OF ADJACENT AND CONFRONTING PROPERTY OWNERS

For ALL projects, provide an accurate list of adjacent and confronting property owners (not tenents), including names, addresses, and zip codes. This list should include the owners of all lots or parcels which adjoin the parcel in question, as well as the owner(s) of lot(s) or parcel(s) which lie directly across the street/highway from the parcel is question.

Monga, much the Historic Presencion

Site Plan



Solar panels shown in purple are on rear portion of garage roof.

This silver color, metal roof is slightly sloped and panels will be positioned at angle to capture the sun.

This rear-facing flat roof is not visible from the street Shade portion to indicate North

Applicant: ROGER MARMET - 19 QUINCY ST

Page:\_5

### Existing Property Condition Photographs (duplicate as needed)



Detail: 19 Quincy St - Front view from street



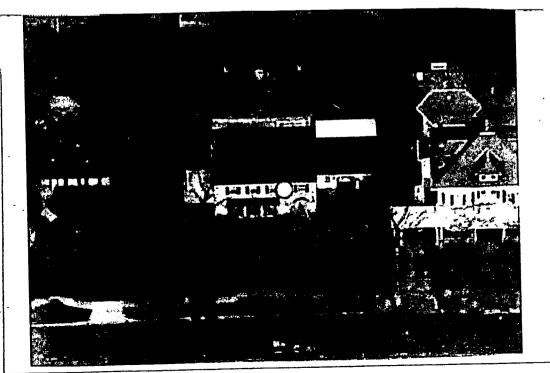
Detail: 19 Quincy St - Side view from Left

3

### Existing Property Condition Photographs (duplicate as needed)



Detail: 19 Quincy St - side view from right - garage on right



Detail: 19 Quincy St - Aerial View - Silver Flat Metal roof at rear of garage-location of solar ROGER MARMET - 19 QUINCY ST 4

agent in connection with contemplated transfer, financing or re-financing.

2. This plan is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements.

This plan does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or securing financing or re-financing.

4. Building line and/or Flood Zone information is taken from available sources and is subject to interpretation of originator.

### Notes

1. Flood zone "C" per H.U.D. panel No. 0175 C

2. Setback distances as shown to the principal structure from property lines are approximate. The level of accuracy for this drawing should be taken to be no greater than

-LOT. 22

LOT 23

N 89°59'15"E 100.00 plus or minus 1 Foot 15,000 S.F. 50.00 LOT: 33 PORCH LOT 19 P.B.45 P.3426 (LOT 21-PER PLAT) 18.9 0.00'45" 2 1/2 STORY ASPIL LINEIFE ROTE **ASPHALT** D/V BRICK STONE WALL

LOCATION DRAWING

LOT 20, BLOCK 61, SECTION 2 CHEVY CHASE

MONTGOMERY COUNTY, MARYLAND

S 89°59'15"W

**QUINCY STREET** (60' R/W)

<i>-</i> ,	SU	RV	ΈÌ	OR'S	CER	TIFI	<u>Ca</u>	TE	

"THE INFORMATION SHOWN HEREON HAS BEEN BASED UPON THE RESULTS OF A FIELD INSPECTION PURSUANT TO THE DEED OR PLAT OF RECORD. EXISTING STRUCTURES SHOWN HAVE BEEN FIELD LOCATED BASED UPON MEASUREMENTS FROM PROPERTY MARKERS FOUND OR FROM EVIDENCE OF LINES OF APPARENT OCCUPATION.

MARYAND PROPERTY LINE SURVEYOR REG. NO. 587

REFERENCES

PLAT BK. 2

PLAT NO. 106

100.00

SNIDER & ASSOCIATES SURVEYORS - ENGINEERS LAND PLANNING CONSULTANTS 2 Professional Drive, Suite 216 Gaithersburg, Maryland 20879 1/948-5100, Fax 301/948-1286 301/948-5100,

DATE OF LOCATIONS SCALE 1"= 30 WALL CHECK: DRAWN BY: E.M.G. HSE. LOC .: 10-31-02 JOB NO .: 2002-6808

LIBER **FOLIO** 

### HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING [Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address	Owner's Agent's mailing address
19 Quincy St	
Chery Chase, MD 20815	
) () (() () ()	
Adjacent and confronting	Property Owners mailing addresses
Tracy + Kathy Wellington	Richard Paisnes & Christine Weiner
10 Quincy St	21 Quincy St
lo Quincy St Chery Chase, MD 20815	Chery Chase, MD 20815
	Chery Chase,
JAMES Nalla Warder	Sally Fogarty
+ Nellie Wordley	
11 Quincy St	3804 Brasley Line
Chery Chase, MD 20815	3804 Bradley Lane Chevy Chase, MD 208:15
UNKNOWN ?	
3800 Bradley Lane	
Classicher MD 2-8/5	·
Chery chase, MD 20815	·
	-

### Re: 19 Quincy Street, Chevy Chase

Roger Marmet [rmarmet@comcast.net]
Sent: Wednesday, January 30, 2013 9:57 PM

**To:** Silver, Joshua **Cc:** Brown, Karen

Attachments:IMG\_4259.JPG (2 MB); IMG\_4253.JPG (2 MB); tsl-spv-module-installatio~1.pdf (225 KB); tsm-pa05us-70638.pdf (221 KB)

Attached are four files as follow up to my application to install solar panels at our house in Chevy Chase.

The first photograph (4253) shows the rear of our house from our backyard. The other photo (4259) shows the flat roof where the solar panels will be installed. This photo is taken from on top of our sunroom roof, and is facing towards the East with our next door neighbor's house in the background.

The specifications I have received from solar city are attached. My understanding is that the panels will be mounted onto the rooftop to the roof joists beneath the metal roof. They will be mounted at an angle to catch the sun - as indicated in the drawing that I previously provided.

Please let me know if you have further information or would like more detail from Solar City. I appreciate your help.

Roger Marmet 19 Quincy Street Chevy Chase

From: "Joshua Silver" < Joshua. Silver@montgomeryplanning.org>

To: "Roger Marmet" <rmarmet@comcast.net>

Cc: "Karen Brown" <karen.brown@montgomeryplanning.org>

**Sent:** Monday, January 28, 2013 1:49:06 PM **Subject:** RE: 19 Quincy Street, Chevy Chase

Thank you very much. Please e-mail them to <a href="mailto:karen.brown@montgomeryplanning.org">karen.brown@montgomeryplanning.org</a> and cc me on your reply.

Josh

From: Roger Marmet [mailto:rmarmet@comcast.net]

Sent: Monday, January 28, 2013 1:47 PM

To: Silver, Joshua

Subject: Re: 19 Quincy Street, Chevy Chase

I appreciate your feedback. I will get additional photos and the specifications from Solar City before Thursday.

Thanks very much,

Roger Marmet

From: "Joshua Silver" < Joshua. Silver@montgomeryplanning.org>

To: rmarmet@comcast.net

**Sent:** Monday, January 28, 2013 12:54:42 PM **Subject:** 19 Quincy Street, Chevy Chase

Mr. Marmet,

I am reviewing your application to install solar panels at 19 Quincy Street in Chevy Chase. I am writing to request some additional information to complete the application. If you will, please provide some information on the design of the panels - a manufacturer specification sheet, a description of how they will be mounted, and a closer photo of the roof to which the panels will be mounted (photo of the rear and side of the house). I will be recommending approval to the commission for this project, but I need additional information to support that recommendation.

Should you have any questions, please feel free to contact me via email. I would appreciate the supplemental information by Thursday, January 31st.

Thank you,

Joshua Silver, Senior Planner | Historic Preservation Section

Functional Planning and Policy Division | Montgomery County Planning Department | M-NCPPC 8787 Georgia Avenue, Suite 206 | Silver Spring MD 20910

301-563-3400 phone | 301-563-3412 fax | joshua.silver@montgomeryplanning.org | www.montgomeryplanning.org/historic/

## EXPEDITIED MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION STAFF REPORT

Address:

19 Ouincy Street, Chevy Chase

**Meeting Date:** 

2/13/2013

Resource:

Contributing Resource

Report Date:

2/06/2013

**Chevy Chase Historic District** 

**Public Notice:** 

1/30/13

Applicant:

Roger and Elizabeth Marmet

Tax Credit:

None

Review:

HAWP

Staff:

Karen Theimer Brown

Case Number:

35/13-13H

PROPOSAL:

Solar panel installation

### STAFF RECOMMENDATION

Staff recommends that the HPC approve this HAWP application.

### ARCHITECTURAL DESCRIPTION

SIGNIFICANCE:

Contributing Resource within the Chevy Chase Historic District

STYLE:

Colonial Revival

DATE:

1916-27

### **PROPOSAL**

The applicant is proposing to install six low-profile mounted Trina SPV solar array panels on the rear portion of the garage roof. The garage is attached to the main block of the house on the right side and the panels will be installed on the moderately sloped metal roof in the rear that is not visible from the street. The panels will be mounted to the roof joists beneath the metal roof. The panels will be mounted at an angle to maximize sunlight.

### APPLICABLE GUIDELINES

### Montgomery County Code; Chapter 24A

- (a) The commission shall instruct the director to deny a permit if it finds, based on the evidence and information presented to or before the commission that the alteration for which the permit is sought would be inappropriate, inconsistent with or detrimental to the preservation, enhancement or ultimate protection of the historic site or historic resource within an historic district, and to the purposes of this chapter.
- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to insure conformity with the purposes and requirements of this chapter, if it finds that:
  - (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or

- (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or
- (3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or
- (4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or
- (5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or
- (6) In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.
  - (c) It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.
  - (d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (Ord. No. 9-4, § 1; Ord. No. 11-59.)

### STAFF RECOMMENDATION

Staff recommends that the Commission <u>approve the HAWP application</u> as being consistent with Chapter 24A-8(b) (1) & (2);

- (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
- (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; and

with the general condition that the applicant shall present the 3 permit sets of drawings to Historic Preservation Commission (HPC) staff for review and stamping prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make **any alterations** to the approved plans. Once the work is completed the applicant will contact the staff person assigned to this application at 301.563.3400 or <a href="mailto:karen.brown@mncppc-mc.org">karen.brown@mncppc-mc.org</a> to schedule a follow-up site visit.

DP8 -#8



### HISTORIC PRESERVATION COMMISSION 301/563-3400

# APPLICATION FOR HISTORIC AREA WORK PERMIT

	WILL MAINT PINNE
0 0	MICAST NET CONSECT POPER ROGICA MARMICT
COREAGE ERAIL: RMARMETE CE	Daytime Phone No.: 301 706-712-7
Tou Assessment film -	
Tax Account No.:ROGER & ELIZA	ABETH MARMET Daytime Phone No.:
	1 1/ 140 7 50
Street Number	CHEVY CHASE MD 20815  City State  State  AGA THE CHASE  STATE  ST
Contractor: SOLAR CITY	Phone No.: 888 - 765 - 2487
Contractor Registration No.: MD /VIHIC	CHEVY CHASE 1508   Top Code    Phone No.: 888 - 765 - 2489    Daytime Phone No.:
Agent for Owner:	Daytime Phone He.:
COPATION OF BUILDING PROPERTY.	
House Number: 19	Street QUINCY ST
· CHENY CHASE	Manuel Come Street Repokville/connecticul
Lot: 20 Block: 61 Subdivi	ision: Section 2 - Chery Chase Villa
Liber: Folio: P	
Black a maderal allandaris	CHECK ALL APPLICABLE
1A. CHECK ALL APPLICABLE	
☐ Construct ☐ Extend ☐ Alter/Renovate ☐ Move	SK Soler   Fireplace   Weadburning Stove   Single Family
☐ Move ☑ Install ☐ Wreck/Raze ☐ Revision ☐ Repair ☐ Revocable.	☐ Fence/Well (complete Section 4) ☐ Other:
18. Construction cost estimate: \$ 1900	
1C. If this is a revision of a previously approved active pa	
ZONA WOZ GOD "PRI STOLENSY EORSTE GOLIO	
ZA. Type of sewage disposek 01 🔲 WSSC	02 🖸 Septic 03 🖸 Other:
28. Type of water supply: 01 ☐ WSSC	02 D Well 03 D Other:
WATER SOUTHER VIOLETIA	HEN-WALL
3A. Height fostinches	
3B. Indicate whether the fence or retaining wall is to be	e constructed on one of the following locations:
	ly on land of owner   On public right of way/essement
I hereby certify that I have the authority to make the fore	egoing application, that the application is correct, and that the construction will comply with plans ge and accept this to be a condition for the issuance of this permit.
To det	, 1. 2
15111111	1/22/2013
Signature of owner or authorized agen	Deta
Approved:	For Chairperson, Historic Preservation Commission
Disapproved: Signature:	

SEE REVERSE SIDE FOR INSTRUCTIONS

(3)

### THE FOLLOWING ITEMS MUST BE COMPLETED AND THE REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.

	Description of existing structure(s) and environmental setting, including their historical features and significance:  1925 White classociated wood, house
	with attacked garage on Quincy ST
	in Chevy Chase Village.
b.	General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district Install 6 Solar Panels on rear portion
	of garage roof. Panels will be on
	back side of house and will have
	no impact on Fronistoric facade of
	house limited visibility in this desint
	location
S	TE PLAN
Si	te and environmental setting, drawn to scale. You may use your plat. Your site plan must include:
<b>a</b> .	the scale, north arrow, and date;
þ.	dimensions of all existing and proposed structures; and
c	site features such as walkways, driveways, fences, ponds, streams, trash dumpsters, mechanical equipment, and landscaping.

### J. PLANS AND ELEVATIONS

2.

1. WRITTEN DESCRIPTION OF PROJECT

You must submit 2 copies of plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" paper are preferred.

- a. Schematic coestruction plans, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.
- b. Elevations (fecades), with marked dimensions, clearly indicating proposed work in relation to existing construction end, when appropriate, context. All materials and focuses proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

### 4. MATERIALS SPECIFICATIONS

General description of materials and manufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

### 5. PHOTOGRAPHS

- Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.
- Clearly label photographic prints of the resource as viewed from the public right-of-way and of the adjoining properties. All labels should be placed on the front of photographs.

### 6. TREE SURVEY

If you are preposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree of at least that dimension.

### 7. ADDRESSES OF ADJACENT AND CONFRONTING PROPERTY OWNERS

For ALL projects, provide an accurate list of adjacent and confronting property owners (not tenants), including names, addresses, and zip codes. This list should include the owners of all lots or perceis which adjoin the percei in question, as well as the owner(s) of lot(s) or percei(s) which lie directly across the street/highway from the percei in question.

### HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING [Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address	Owner's Agent's mailing address
19 Quincy St	
Chery Chase, MD 20815	
A discent and confronting	Property Owners mailing addresses
Adjacent and confronting	Property Owners maning addresses
Tracy + Kathy Wellington	Richard Paisner & Christine Weiner
10 Quincy St	21 Quincy St
Chery Chase, MD 20815	Chery Chase, MD 20815
JAMES Nellie Worsley	Sally Fogarty
11 Quincy St	3804 Bradley Lane
Chery Chase, MD 20815	3804 Bradley Lane Chevy Chase, MD 20815
11.11	
UNKNOWN ?	
3800 Bradley Lane	
Chery chase, MD 20815	

agent in connection with contemplated transfer, financing or re-financing.

2. This plan is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements.

- 3. This plan does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or securing financing or re-financing.
- 4. Building line and/or Flood Zone information is taken from available sources and is subject to interpretation of originator.

#### Notes

- 1. Flood zone "C" per H.U.D. panel No. 0175 C
- 2. Setback distances as shown to the principal structure from property lines are approximate. The level of accuracy for this drawing should be taken to be no greater than plus or minus 1 Foot

LOT 22

LOT 23

N 89°59'15"E 100.00 15.000 S.F. BRICK BR/S BRICK LOT 33 PORCH LOT 19 P.B.45 P.3426 (LOT 21-PER PLAT) 189 2 L/2 STURY . ASPIL UNBER ROOF FRAME #19 18.7 ASPHALT DA RETC PORCH STONE VALL 39.7

LOCATION DRAWING

S 89°59'15"W

100.00

LOT 20. BLOCK 61. SECTION 2 CHEVY CHASE

(60' R/W)

**OUINCY STREET** 

MONTGOMERY COUNTY, MARYLAND

SURVEYOR'S CERTIFICATE THE INFORMATION SHOWN HEREON HAS BEEN BASED UPON THE RESULTS OF A FIELD INSPECTION PURSUANT TO THE DEED OR PLAT OF RECORD. EXISTING STRUCTURES SHOWN HAVE BEEN FIELD LOCATED BASED UPON MEASUREMENTS FROM PROPERTY MARKERS FOUND

OR FROM EVIDENCE OF LINES OF APPARENT OCCUPATION.

MARYAND PROPERTY LINE SURVEYOR REG. NO. 587

REFERENCES PLAT BK. 2 PLAT NO. 106

SNIDER & ASSOCIATES SURVEYORS - ENGINEERS LAND PLANNING CONSULTANTS 2 Professional Drive, Suite 216

Gaithersburg, Maryland 20879 01/948-5100, Fax 301/948-1286 301/948-5100, SCALE: 1"= 30

LIBER **FOLIO** 

DATE OF LOCATIONS WALL CHECK: DRAWN BY: E.M.G. HSE. LOC .: 10-31-02 JOB NO.: 2002-6808

### Existing Property Condition Photographs (duplicate as needed)



Detail: 19 Quincy St - Front view from street

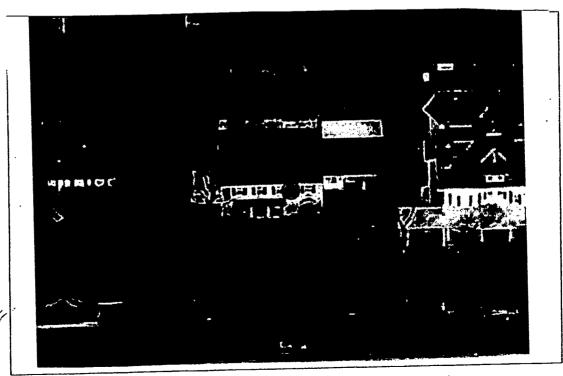


Detail: 19 Quincy St - Side view from Left

### Existing Property Condition Photographs (duplicate as needed)

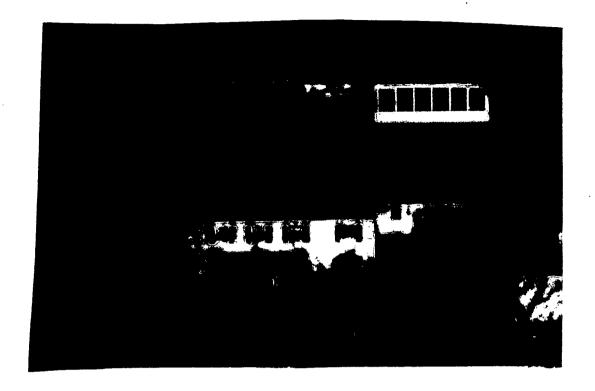


Detail: 19 Quincy St - side view from right - garage on right



Detail: 19 Quincy St - Aerial View - Silver flat Metal roof at rear of garage-location of solar

100 40



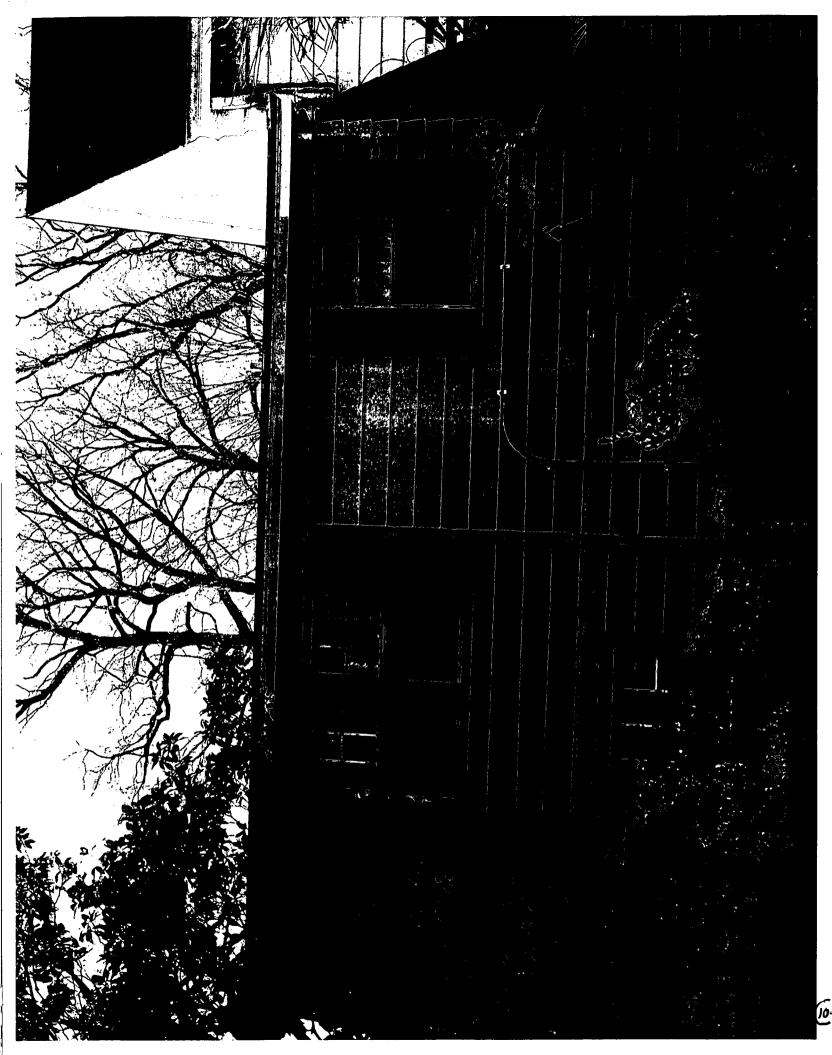
Solar panels shown in purple are on rear portion of garage roof.

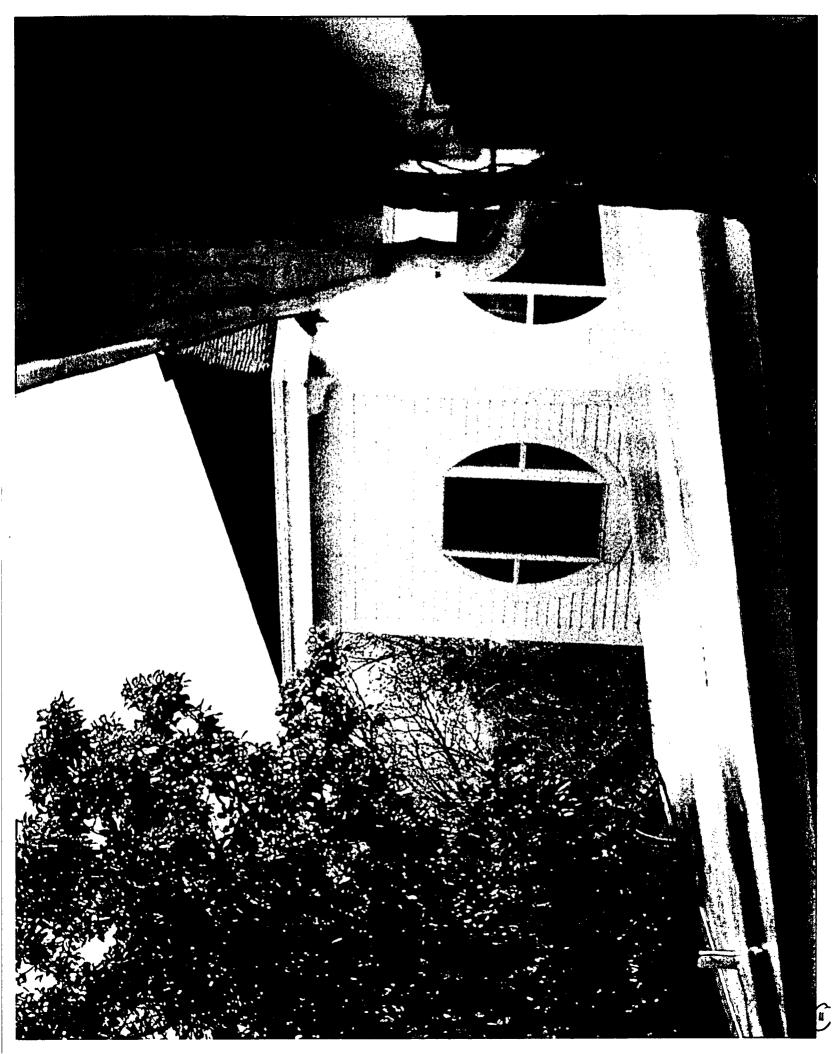
This silver color, metal roof is slightly sloped and panels will be positioned at angle to capture the sun.

This rear-facing flat roof is not visible from shade portion to indicate North

Applicant: ROGER MARMET

Page





# Trinasolar

# TRINA SOLAR LIMITED INSTALLATION INSTRUCTION MANUAL CRYSTALLINE SPV MODULE

					Changzhou Trin Company Limited		Energy
REV	ECN / NPA	DESCRIPTION OF CHANGE	CHK'D/DATE	APP'D/DATE	TITLE:		
Α	11-2007	Release to Market for 72cell Module with 125x125mm Mono crystalline	Yang XiaoWu 20 <sup>th</sup> Nov 2007	Chaudary 20 <sup>th</sup> Nov 2007	CRYSTALLINESOLAR		
В	06-2008	Added 60cell Module with 156x156mm Mono and Multi Crystalline	Yang XiaoWu 12 <sup>th</sup> June 2008	Chaudary 12 <sup>th</sup> June 2008			
		·					
					SPEC DRAWN BY: REV Chaudary B		REV:
					SHEET 1	OF	1

Trinasolar Changzhou Trina Solar Energy Company Limited		TECHINICAL SPECIFICATION	
TITLE:	in Energy Company Emitted	SPEC. NO.:	PS-M-0013
INSTALLATION INSTRUCTION MANUAL FOR THE CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE		REVISION:	В
		EFFECTIVE DATE:	March 2008
AUTHOR(S):	B V Chaudary, David Chen, Yang XiaoWu		Page 1 of 8

### 1. INTRODUCTION

Trina Solar Energy Company Limited has a long history of successful innovation within the solar industry. The company was founded in 1997 and has made significant investments in research and development, creating over 20 patents during the company' history.

The company has several fully integrated product lines including ingots, casting, wafers, Cells and Modules of Mono and Multicrystalline Silicon Solar Photovoltaic (SPV) modules and those products are also exported to overseas markets. With an experienced international management team and a strong reputation for innovation, Trina Solar is one of the leaders in China's solar energy sector and provides the highest quality SSPV modules in a range of sizes designed to meet the requirements of the most demanding energy and power users worldwide.

### 2. POWER MODULE

Trina Solar Photovoltaic modules consist of a series of electrically interconnected crystalline silicon solar cells. Which are permanently encapsulated between a tempered glass superstrate and substrate. The entire laminate is secured within an anodized aluminum frame for structural strength; ease of installation and to protect the cells from the most severe environmental conditions.

### 3. APPLICATIONS

Trina SPV modules are a highly reliable, virtually maintenance-free direct current (DC) power source, designed to operate most efficiently in sunlight. Trina series modules are ideal to power remote homes, recreational vehicles, water pumps, telecommunication systems and many other applications either with or without the use of storage batteries.

#### 4. PERMIT

Before installing your system, contact local authorities to determine the necessary permit, installation and inspection requirements.

### 5. CLIMATE CONDITION

Install the Trina Solar Crystalline series modules in the following conditions:

Ambient temperature: -20°C to +40°C.
 Operating temperature: -40°C to +85°C.

Storage temperature: -40°C to +40°C, Humidity: below 85RH%

• Wind pressure: below 50.12lb / ft<sup>2</sup> (2400Pa).

Corrosion resistance: Except for corrosive salt area and sulfurous area.

Add: No.2 Tian He Road, Electronics Park, New District, Changzhou, P.R. China http://www.trinasolar.com E-mail: <a href="mailto:sales@trinasolar.com">sales@trinasolar.com</a> Tel: 0086-519-85485801, Fax: 0086-519-85485936

Trinasolar		TECHINICAL SPECIFICATION		
Changzhou Trina Solar	Energy Company Limited			
TITLE:		SPEC. NO.:	PS-M-0013	
INSTALLATION INSTRUCTION MANUAL FOR THE CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE		REVISION:	В	
		EFFECTIVE DATE:	March 2008	
AUTHOR(S):	B V Chaudary, David Chen, Yang XiaoWu		Page 2 of 8	

### 6. SITE SELECTION

In most applications, Trina SPV modules should be installed in a location where they will receive maximum sunlight throughout the year. In the Northern Hemisphere, the module should typically face south, and in the Southern Hemisphere, the modules should typically face north. Modules facing 30 degrees away from true South (or North) will lose approximately 10 to 15 per cent of their power output. If the module faces 60 degrees away from true South (or North), the power loss will be 20 to 30 per cent.

When choosing a site, avoid trees, buildings or obstructions, which could cast shadows on the solar photovoltaic modules especially during the winter months when the arc of the sun is lowest over the horizon. Shading causes loss of output, even though the factory fitted bypass diodes of the SPV module will minimize any such loss.

Do not install the SPV module near naked flame or flammable materials.

Do not install the SPV module in a location where it would be immersed in water or continually exposed to water from a sprinkler or fountain etc.

### 7. MODULE TILT ANGLE

Trina SPV modules connected in series should be installed at same orientation and angle. Different orientation or angle may cause loss of output power due to difference of amount of sunlight exposed to the module.

Trina SPV modules produce the most power when they are pointed directly at the sun. For installations where the SPV modules are attached to a permanent structure, the SPV modules should be tilted for optimum winter performance. As a rule, if the system power production is adequate in winter, it will be satisfactory during the rest of the year. The module tilt angle is measured between the solar modules and the ground (Figure 1). Optimal tilting of SPV module is almost the same as the latitude of installation location.

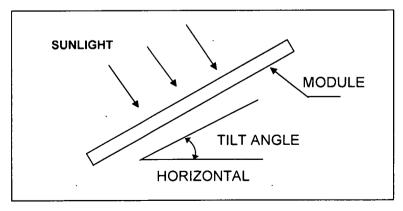


Figure 1 SPV Module Tilt Angle

Trinasolar Changzhou Trina Solar Energy Company Limited		TECHINICAL SPECIFICATION		
TITLE:		SPEC. NO.:	PS-M-0013	
INSTALLATION INSTRUCTION MANUAL FOR THE CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE		REVISION:	В	
		EFFECTIVE DATE:	March 2008	
AUTHOR(S):	B V Chaudary, David Chen, Yang XiaoWu		Page 3 of 8	

#### 8. MOUNTING AND NOTES

Systems should be installed by qualified personnel only. It involves electricity, and can be dangerous if the personnel are not familiar with the appropriate safety procedures.

The module frame is made of anodized aluminum, and therefore corrosion can occur if the module is subject to a salt water environment with contact to a rack of another type of metal (Electrolysis Corrosion). If required, PVC or stainless steel washers can be placed between the SPV module frame and support structure to prevent this type of corrosion. Module support structures that are to be used to support SPV modules at correct tilt angles should be wind and snow load rated for use by the appropriate local and civil codes prior to installation.

Trina SPV modules can be mounted as following method:

- Using corrosion-proof screws (M8) on the existing installing holes in the module frame, see drawing 2 and 4.
- Using suitable module clamps on the module frame, see drawing 2 and 4.
- Using insertion systems.

The frame of each module has 4 mounting holes (12mm\*9mm) used to secure the modules to supporting structure. The module frame must be attached to a supporting structure using M8 stainless steel hardware together with spring washers and flat washers in four places symmetrical on the SPV module. The applied torque is about 8 Newton-meters.

The module clamps must not come into contact with the front glass and must not deform the frame. Avoid shadowing effects from the module clamps and the insertion systems. It is not permitted to modify the module frame under any circumstances. Recommended distance between 2 Solar modules is 5mm considering linear thermal expansion of the module frames.

Clearance between the module frame and mounting surface may be required to prevent the junction box from touching the surface, and to circulate cooling air around the back of the module.

The modules are not designed for integral mounting as part of a roof or wall. The mounting design may have an impact on the fire resistance. If the modules are to be installed on the roof or wall of a building, the fire resistance of roof covering or wall should be rated for the application. Here the standoff method or the rack method is recommended. The modules are supported parallel to surface of the building wall or roof. Clearance between the module frames and surface of the wall or roof is required to prevent wiring damage and to allow air to circulate behind the module. The recommended stand-off height is 115mm. Any slope less than 5in/ft (127mm/305mm) required to maintain a fire class rating. Do not mount SPV module in such way that the drain holes of SPV module are intended to block up.

Do not step on the module, although SPV modules are quite rugged, the glass can be broken (and the module will no longer work properly) if it is dropped or hit by tools or other objects.

Add: No.2 Tian He Road, Electronics Park, New District, Changzhou, P.R. China http://www.trinasolar.com/E-mail:/sales@trinasolar.com/Tel: 0086-519-85485801, Fax: 0086-519-85485936

Trinasolar Changzhou Trina Solar Energy Company Limited		TECHINICAL SPECIFICATION		
TITLE:		SPEC. NO.:	PS-M-0013	
INSTALLATION INSTRUCTION MANUAL FOR THE CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE		REVISION:	В	
		EFFECTIVE DATE:	March 2008	
AUTHOR(S):	B V Chaudary, David Chen, Yang XiaoWu		Page 4 of 8	

#### 9. GROUNDING

All module frames and mounting racks must be properly grounded in accordance with the National Electrical Code. Proper grounding is achieved by connecting the module frame(s) and structural members contiguously one to another using a suitable grounding conductor. The grounding conductor or strap may be copper, copper alloy, or other material acceptable for use as an electrical conductor per NEC. The grounding conductor must then make a connection to earth using a suitable earth ground electrode.

Attach a separate conductor to one of the 4mm diameter grounding holes marked 'GR' on the module frame with a bolt and nut that incorporates an external tooth washer. This is to ensure positive electrical contact with the frame.

The rack must also be grounded unless they are mechanically connected by nuts and bolts to the grounded SPV modules. The array frame shall be grounded in accordance with NEC Art250.

#### 10. BYPASS DIODES AND BLOCKING DIODES

Partial shading of an individual module can cause a reverse voltage across the shaded SPV module. Current is then forced through the shaded area by the other modules.

When a bypass diode is wired in parallel with the series string, the forced current will flow through the diode and bypass the shaded SPV module, thereby minimizing module heating and array current losses.

In system utilizing a battery, blocking diodes are typically placed between the battery and the SPV module output to prevent battery discharge at night.

Diodes that are used as blocking diodes must: Have a Rated Average Forward Current  $[I_{F(AV)}]$  above maximum system current at highest module operating temperature. Have a Rated Repetitive Peak Reverse Voltage  $[V_{RRM}]$  above maximum system voltage at lowest module operating temperature.

### 11. WARNING AND NOTES

The SPV modules generate electricity when exposed to light. Array of many modules can cause lethal shock and burn hazards. Only authorized and trained personnel should have access to these modules. To reduce the risk of electrical shock or burns, modules maybe covered with an opaque material during installation to avoid shocks or burns. Do not touch live terminals with bare hands. Use insulated tools for electrical connections.

Use appropriate methods to mount SPV modules. Fall of modules from high place will cause death, injury or damage.

The SPV module has a pair of male and female waterproof connectors. For a series electrical connection, connect positive (+) connector of first SPV module to negative (-) connector of the following module.

Add: No.2 Tian He Road, Electronics Park, New District, Changzhou, P.R. China http://www.trinasolar.com E-mail: <a href="mailto:sales@trinasolar.com">sales@trinasolar.com</a> Tel: 0086-519-85485801, Fax: 0086-519-85485936

Trinasolor Changzhou Trina Solar Energy Company Limited		TECHINICAL SPECIFICATION			
TITLE:		SPEC. NO.:	PS-M-0013		
INSTALLATION INSTRUCTION MANUAL FOR THE CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE		REVISION:	В		
		EFFECTIVE DATE:	March 2008		
AUTHOR(S):	B V Chaudary, David Chen, Yang XiaoWu		Page 5 of 8		

Do not short the positive and the negative. Do not disconnect under load. Be sure connector no gap between the insulators. In case there is a gap, a fire and/or an electrical shock may occur.

Artificially concentrated sunlight shall not be directed on the SPV module. The electrical characteristics are indicated value of Pmax under standard test conditions (Irradiance of 1000W/m², AM 1.5 spectrum, and cell temperature of 25°C).

Under normal conditions, a solar photovoltaic module is likely to experience conditions that produce more current and/or voltage than reported at standard test conditions. Accordingly the value of Isc and Voc marked on this module should be multiplied by a factor of 1.25 when determining component voltage ratings, conductor current ratings, fuse sizes, and sizes of controls connected to the SPV output. Refer to Section 690-8 of the National Electrical Code for an additional multiplying factor of 1.25 which may also be applicable.

The installation in Canada shall be in accordance with CSA C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part 1.

### 12. MODULE WIRING

Each module has two #12 AWG type standard 90°C sunlight resistant output cables each terminated with plug & ply connectors. This cable is suitable for applications where wiring is exposed to the direct rays of the Sun. We recommend that all wiring and electrical connections comply with the National Electrical Code (NEC).

For field connections, use the minimum No. #12 AWG copper wires insulated for a minimum of 90°C and Sunlight resistant as well.

The minimum and maximum outer cable diameters of the cable are 5 to 7mm. Refer to table 1 for the maximum electrical rating of series fuse.

### 13. MAINTENANCE

Under most weather conditions, normal rainfall is sufficient to keep the SPV module glass surface clean. If dirt build-up becomes excessive, clean the glass only with a soft cloth using mild detergent and water. USE CAUTION WHEN CLEANING THE BACK SURFACE OF THE MODULE TO AVOID PENETRATING THE SUBSTRATE MATERIALS. SPV Modules that are mounted flat (0° tilt angle) should be cleaned more often, as they will not "self clean" as effectively as modules mounted at a 15° tilt or greater. Once a year, check the tightness of terminal screws and the general condition of the wiring. Also, check to be sure that mounting hardware is tight. Loose connections will result in damage for array.

Changed SPV module must be the same kind and type. Do not touch live parts of cables and connectors. Use appropriate safety equipment (insulated tools, insulating gloves, etc.), when touching them.

Cover the front surface of the SPV module by an opaque or other material when repairing. The SPV modules when exposed to sunlight generate high voltage and are dangerous.

Add: No.2 Tian He Road, Electronics Park, New District, Changzhou, P.R. China http://www.trinasolar.com E-mail: <a href="mailto:sales@trinasolar.com">sales@trinasolar.com</a> Tel: 0086-519-85485801, Fax: 0086-519-85485936

Trinasolar		TECHINICAL SPECIFICATION			
Changzhou Trina Solar Energy Company Limited  TITLE: INSTALLATION INSTRUCTION MANUAL FOR THE CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE		SPEC. NO.:	PS-M-0013		
		REVISION:	В		
		EFFECTIVE DATE:	March 2008		
AUTHOR(S):	B V Chaudary, David Che	en, Yang XiaoWu	Page 6 of 8		

14. SPECIFICATIONS: Table 1: Electrical and Mechanical Specifications.

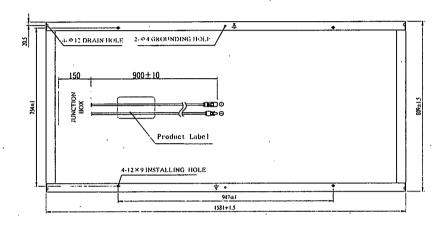
				Weight (kg)	Electrical Performance @ STC						
Module Series	Model	Dimensions (mm)	Max- Power P <sub>m</sub> (W)		Max- Power Voltage V <sub>Pm</sub> (V)	Max- Power Current I <sub>Pm</sub> (A)	Open- Circuit Voltage V <sub>OC</sub> (V)	Short- Circuit Current I <sub>SC</sub> (A)	Max- System Voltage (VDC)	Max- Series Fuse (A)	
	/zpcs 125×125mm Monocrystalline Silicon SPV Module	TSM-160D		15.60	160±3%	34.90	4.60	42.8	5.15	C61730:1000VDC	
E E		TSM-165D			165±3%	35.60	4.65	43.2	5.20		
×125		TSM-170D	09×40		170±3%	35,80	4.75	43.6	5.25		0
s 125		TSM-175D	1581×809×40		175±3%	36.20	4.85	43.9	5.30		7.0
72pcs		TSM-180D	_		180±3%	36.80	4.90	44.2	5.35		
:		TSM-185D			185±3%	37.50	4.95	44.5	5.40		
	Monocrystalline Silicon SPV Module	TSM-200D			200±3%	28.7	6.97	36.0	7.75	UL1703: 600VDC & IEC61215/IEC61730:1000VDC	
l gaill		TSM-210D			210±3%	29.2	7.19	36.4	7.86		
) l		TSM-220D			220±3%	29.8	7.39	36.8	8.00		
56mn	Mono licon	TSM-230D	×46		230±3%	30.0	7.66	37.0	8.18		
156×156mm	S	TSM-240D	1650×992×46	19.50	240±3%	30.6	7.84	37.5	8.38		11.0
S	Multicrystalline Silicon SPV Module	TSM-200P	1650		200±3%	28.7	6.97	36.0	7.75	703:	
60 		TSM-210P			210±3%	29.2	7.19	36.4	7.86	UĽ	
		TSM-220P			220±3%	29.8	7.39	36.8	8.00		
	Silic	TSM-230P	•		230±3%	30.0	7.66	37.0	8.18		

### Notes

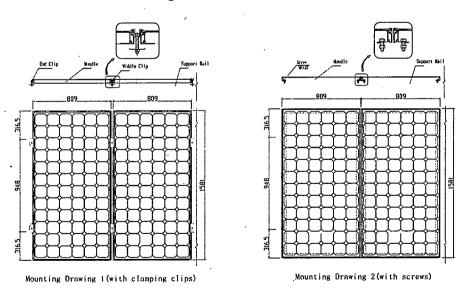
- Standard Test Condition(STC) of Irradiance of 1000W/m², AM1.5 Solar Spectrum & 25 cell temperature 1.
- Nominal Operating Cell Temperature (NOCT):47±2
- 3.
- The tolerance of Voltage and Current within ±10%
  Temperature coefficient of Current is 0.05%/°K, Temperature coefficient of Voltage is -0.35%/°K. 4.
- See SPV Module drawing for mounting and grounding holes locations

Add: No.2 Tian He Road, Electronics Park, New District, Changzhou, P.R. China http://www.trinasolar.com E-mail: sales@trinasolar.com Tel: 0086-519-85485801, Fax: 0086-519-85485936

Trinasolor Changzhou Trina Solar Energy Company Limited		TECHINICAL SPECIFICATION		
TITLE: INSTALLATION INSTRUCTION MANUAL FOR THE CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE		SPEC. NO.:	PS-M-0013	
		REVISION:	В	
		EFFECTIVE DATE:	March 2008	
AUTHOR(S):	B V Chaudary, David Che	B V Chaudary, David Chen, Yang XiaoWu		



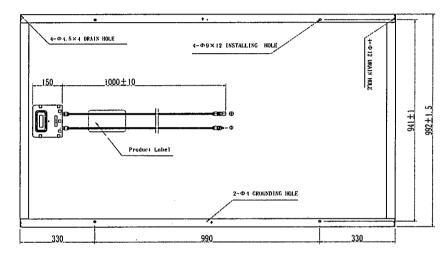
Drawing 1 Back view of 6\*12-125 SPV Module



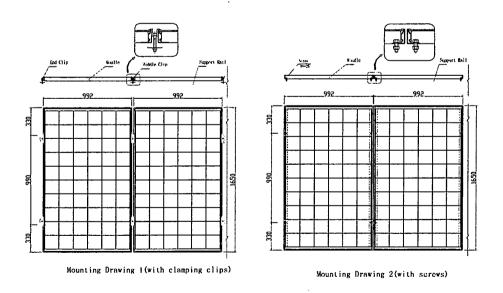
Drawing 2 Mounting drawing for 6\*12-125 SPV Module (with clamping clips and screws)

Add: No.2 Tian He Road, Electronics Park, New District, Changzhou, P.R. China http://www.trinasolar.com/E-mail: <a href="mailto:sales@trinasolar.com">sales@trinasolar.com</a> Tel: 0086-519-85485801, Fax: 0086-519-85485936

Trinasolor Changzhou Trina Solar Energy Company Limited		TECHINICAL SPECIFICATION		
TITLE: INSTALLATION INSTRUCTION MANUAL FOR THE CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE		SPEC. NO.:	PS-M-0013	
		REVISION:	В	
		EFFECTIVE DATE:	March 2008	
AUTHOR(S):	B V Chaudary, David Chen, Yang XiaoWu		Page 8 of 8	



Drawing 3 Back view of 6\*10-156 SPV Module



Drawing 4 Mounting drawing for 6\*10-156 SPV Module (with clamping clips and screws)

Add: No.2 Tian He Road, Electronics Park, New District, Changzhou, P.R. China http://www.trinasolar.com/E-mail: <a href="mailto:sales@trinasolar.com">sales@trinasolar.com</a> Tel: 0086-519-85485801, Fax: 0086-519-85485936

### TSM-PC05 TSM-PA05

THE UNIVERSAL SOLUTION

15.0%
MAX EFFICIENCY

245W
MAX POWER OUTPUT

10 YEAR PRODUCT WARRANTY

25 YEAR
LINEAR POWER WARRANTY

Founded in 1997, Irino Solar is a vertically integrated PV manufacturer, involved in the production of ingots, waters and cells to the assembly of high quality machites using both mono and multicrystalline technologies. As of July 2011, the Company has already achieved an annualized nameplate module capacity of approximately 1.9GW. Trino Solar's wide range of products are used in residential, commercial, industrial and public utility applications throughout the world.

Only by matching an efficient coststructure with proven performance will we as an industry achieve grid parity. And at Trina Solar, we have both.

Trina Solar Limited www.trinasolar.com





Module can bear snow loads up to **5400Pa** and wind loads up to **2400Pa** 



Guaranteed power output 0~+3%



High performance under low light conditions Cloudy days, mornings and evenings



Independently certified by international certification bodies

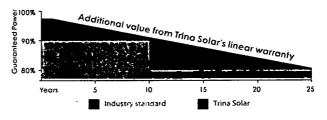
IEC61215, IEC61730, UL1703, TUV Safety Class II, CE

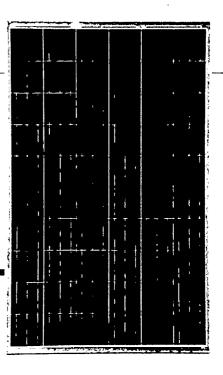


Manufactured according to International Quality and Environment Management System Standards ISO9001, ISO14001

### LINEAR PERFORMANCE WARRANTY

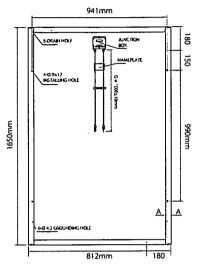
10 Year Product Warranty • 25 Year Linear Power Warranty



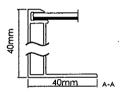


### TSM-PC05 / TSM-PA05 THE UNIVERSAL SOLUTION

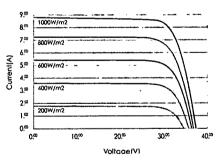
#### DIMENSIONS OF PV MODULE TSM-PC/PA 05



Ва	ck	٧i	e١	١



### I-V CURVES OF PV MODULE TSM-230 PC/PA 05



Average efficiency reduction of 4.5% at 200W/m $^2$  according to EN 60904-1.

### CERTIFICATION









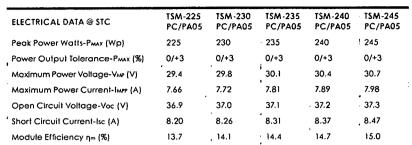












Values at Standard Test Conditions STC (Air Mass AMI.5, Irradiance 1000W/m², Cell Temperature 25°C).

•	ELECTRICAL DATA @ NOCT	TSM-225 PC/PA05	TSM-230 PC/PA05	TSM-235 PC/PA05	TSM-240 PC/PA05	TSM-245 PC/PA05
	Maximum Power (W)	164	168	172	175	178
	Maximum Power Voltage (V)	26.9	27.1	27.4	27.7	27.8
	Maximum Power Current (A)	6.12	6.20	6.27	6.32	6.41
	Open Circuit Voltage (V)	33.8	33.9	34.0	34.1	ʻ 34.2
	Short Circuit Current (A)			6.70	6.75	6.83

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1M/s.

### MECHANICAL DATA

Solar cells Multicrystalline 156 × 156mm (6 inches)

Cell orientation 60 celis (6 × 10)

1650 × 992 × 40mm (64.95 × 39.05 × 1.57 incheş) Module dimension

Weight 19.5kg (43.0 lb)

High fransparancy solar glass 3.2mm (0.13 inches) Glass

Frame Anodized aluminium alloy

J-Box

Photovoltaic Technology cable  $4.0 \, \text{mm}^2$  ( $0.006 \, \text{inches}^2$ ),  $1000 \, \text{mm}$  ( $39.4 \, \text{inches}$ ), MC4 / H4 Cables / Connector

### TEMPERATURE RATINGS

Nominal Operating Cell 46°C (±2°C) Temperature (NOCT)

Temperature Coefficient of PMAX -0.43%/°C Temperature Coefficient of Voc - 0.32%/°C

Temperature Coefficient of Isc 0.047%/°C MAXIMUM RATINGS

Operational Temperature -40~+85°C Maximum System 1000V DC(IEC)/ 600V DC(ÚL)

Max Series Fuse Ratina 15A

### WARRANTY

10 year workmanship warranty

25 year linear performance warranty

(Please refer to product warranty for details)

### PACKAGING CONFIGURATION

Modules per box: 24 pcs

Modules per 40' container: 672 pcs

