

Small Photovoltaic Electricity Generating Systems

**United States Department of Agriculture
Rural Development Utilities Programs
Electric Programs**

**Informational Publication 202-2
(Updated August 24, 2006)**

DISCLAIMER

*Every effort has been made to ensure the accuracy of this document.
However, in case of discrepancies, records of Technical Standards
Committee "A" are the authoritative source.*

PREFACE

This list supersedes all preceding issues including revisions. This document will be revised as new systems are added and prior acceptances expire.

The items shown in this publication include small photovoltaic electricity generating systems which have been found to be acceptable. Acceptances are valid for two years, but may be renewed.

The inclusion of an item in this list does not indicate that item's manufacturer or its principals have not been debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded pursuant to Executive Order 12549, Debarment or Suspension, or any rules or regulations issued thereunder, including 7 CFR Part 3017 ("Debarment Regulations"). Therefore, borrowers must comply with the requirements imposed by the Debarment Regulations before entering into any "covered transaction", as defined by 7 CFR Part 3017, involving any item on this list.

The acceptance of an additional item or the deletion of an existing item is a function of the Technical Standards Committees. Any manufacturer desiring to have a new item placed on the list, or any user believing an existing item should be removed from the list, is invited to submit the matter to the Committees. Any communication calling attention to an error or omission in the list, such as a wrong catalog number, an obsolete item, etc., will be appreciated. All communications should be addressed to Technical Standards Committee "A" (Electric), USDA Rural Development Utilities Programs, Stop 1569, Washington, D. C. 20250-1569.

Evaluation of the photovoltaic (PV) systems shown in this document has been a cooperative effort of the Sandia National Laboratories, the Florida Solar Energy Center, and the USDA Rural Development Electric Programs. The PV systems shown in this document have been found to be acceptable for use on the utility systems of USDA Rural Development Electric Programs Borrowers, and may be financed in accordance with current regulations.

Acceptance applies only to the complete PV systems as described by the model numbers listed. A list of components used in the PV systems is shown for reference only. Acceptance does not apply to individual components or to the components in any other configurations. The documentation in these packaged PV systems will include, at a minimum, PV system specifications, parts lists, electrical schematics, mechanical drawings, and instructions for the installation, operation and maintenance of the PV system.

PV systems are accepted for a two year period, at which time the manufacturer may request renewal of the acceptance.

Questions should be sent to RUS.Electric@wdc.usda.gov.

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SunWize Technologies

1155 Flatbush Road
Kingston, New York 12401

Components:Solar Modules:

Sharp (NT-175U1 and ND167U3)

Sanyo (HIP-190BA3)

Inverters:

SMA Americas (SB1800, SB2500, and SB6000)

Sharp (JH3500U)

Xantrex (GT3.0)

Fronius (IG2000, IG2500, IG3000, IG4000, IG4500, and IG5100)

StarInverter (PVP2800)

Safety Switch

Square D

Solar Mounts

Unirac

List of Photovoltaic Systems

System part number	PV Array Watts @STC	PV Module model	PV# Series x parallel	PV String Voc (DC)	Grid Tie Inverter Model
999GTS300	1050	NT-175U1	6 X 1	266	SB1800U
999GTS301	1225	NT-175U1	7 X 1	311	SB1800U
999GTS303	2100	NT-175U1	6 X 2	266	SB1800U
999GTS320	1225	NT-175U1	7 X 1	311	IG2000
999GTS321	1400	NT-175U1	8 X 1	355	IG2000
999GTS322	1575	NT-175U1	9 X 1	400	IG2000
999GTS323	2100	NT-175U1	6 X 2	266	IG2000
999GTS330	2450	NT-175U1	7 X 2	311	IG2500-LV
999GTS331	2800	NT-175U1	8 X 2	355	IG2500-LV
999GTS340	2450	NT-175U1	7 X 2	311	IG3000
999GTS341	2800	NT-175U1	8 X 2	355	IG3000
999GTS342	3150	NT-175U1	9 X 2	400	IG3000
999GTS360	2450	NT-175U1	7 X 2	311	PVP2800-208
999GTS361	2800	NT-175U1	8 X 2	355	PVP2800-208
999GTS362	3150	NT-175U1	9 X 2	400	PVP2800-208
999GTS370	2450	NT-175U1	7 X 2	311	PVP2800
999GTS371	2800	NT-175U1	8 X 2	355	PVP2800
999GTS372	3150	NT-175U1	9 X 2	400	PVP2800
999GTS375	4225	NT-175U1	9 x 3	399.6	SB6000U
999GTS376	5250	NT-175U1	10 X 3	444	SB6000U
999GTS377	6300	NT-175U1	9 X 4	399.6	SB6000U
999GTS378	5775	NT-175U1	11 X 3	488.3	SB6000U
999GTS380	2450	NT-175U1	7 X 2	311	GT3.0
999GTS381	2800	NT-175U1	8 X 2	355	GT3.0
999GTS382	3150	NT-175U1	9 X 2	400	GT3.0
999GTS383	3500	NT-175U1	10 X 2	444	GT3.0
999GTS384	3675	NT-175U1	7 X 3	311	GT3.0
999GTS390	3673	NT-175U1	7 X 3	311	JH3500U
999GTS395	3675	NT-175U1	7 X 3	311	IG4000

System part number	PV Array Watts @STC	PV Module model	PV# Series x parallel	PV String Voc (DC)	Grid Tie Inverter Model
999GTS397	5600	NT-175U1	8 X 4	355.2	IG5100
999GTS500	1520	HIP-190BA3	4 X 2	270	SB1800U
999GTS502	1900	HIP-190BA3	5 X 2	338	SB1800U
999GTS511	2660	HIP-190BA3	7 X 2	473	SB2500U
999GTS512	2280	HIP-190BA3	6 X 2	405	SB2500U
999GTS520	1140	HIP-190BA3	6 X 1	405	IG2000
999GTS521	1520	HIP-190BA3	4 X 2	270	IG2000
999GTS522	1900	HIP-190BA3	5 X 2	338	IG2000
999GTS530	2280	HIP-190BA3	6 X 2	405	IG2500-LV
999GTS531	2850	HIP-190BA3	5 X 3	338	IG2500-LV
999GTS532	3040	HIP-190BA3	4 X 4	270	IG2500-LV
999GTS540	2280	HIP-190BA3	6 X 2	405	IG3000
999GTS541	2850	HIP-190BA3	5 X 3	338	IG3000
999GTS542	3040	HIP-190BA3	4 X 4	270	IG3000
999GTS544	3420	HIP-190BA3	6 X 3	405	IG4000
999GTS545	4560	HIP-190BA3	6 X 4	405	IG4000
999GTS546	3800	HIP-190BA3	5 X 4	338	IG4000
999GTS547	3800	HIP-190BA3	5 X 4	338	IG4500-LV
999GTS548	4560	HIP-190BA3	6 X 4	405	IG4500-LV
999GTS549	4750	HIP-190BA3	5 X 5	338	IG4500-LV
999GTS560	2280	HIP-190BA3	6 X 2	405	PVP2800-208
999GTS561	2850	HIP-190BA3	5 X 3	338	PVP2800-208
999GTS570	2280	HIP-190BA3	6 X 2	405	PVP2800
999GTS571	2850	HIP-190BA3	5 X 3	338	PVP2800
999GTS580	3420	HIP-190BA3	3 X 6	202.5	JH3500U
999GTS581	3800	HIP-190BA3	3X4 (+ 4X2)	202.5 (270)	JH3500U
999GTS582	3990	HIP-190BA3	4X4 (+ 5X1)	270 (337.5)	JH3500U
999GTS583	4560	HIP-190BA3	4 X 6	270	JH3500U
999GTS590	2660	HIP-190BA3	7 X 2	473	GT3.0
999GTS591	2280	HIP-190BA3	6 X 2	405	GT3.0
999GTS592	1900	HIP-190BA3	5 X 2	338	GT3.0
999GTS594	2850	HIP-190BA3	5 X 3	338	GT3.0
999GTS596	3420	HIP-190BA3	6 X 3	405	GT3.0
999GTS597	1140	HIP-190BA3	6 X 1	405	GT3.0
999GTS600	4560	HIP-190BA3	6 X 4	405	SB6000U
999GTS601	5700	HIP-190BA3	6 X 5	405	SB6000U
999GTS602	6840	HIP-190BA3	6 X 6	405	SB6000U
999GTS603	5320	HIP-190BA3	7x4	472.5	SB6000U
999GTS604	6650	HIP-190BA3	7x5	472.5	SB6000U
999GTS620	4560	HIP-190BA3	6 X 4	405	IG5100
999GTS622	4750	HIP-190BA3	5 X 5	337.5	IG5100
999GTS623	5700	HIP-190BA3	6 X 5	405	IG5100
999GTS700	2004W	ND-167U3	12 X 1	248	IG2000
999GTS701	2338	ND-167U3	14 X 1	406	IG2000
999GTS702	2672	ND-167U3	8 X 2	232	IG3000
999GTS703	3006	ND-167U3	9 X 2	261	IG3000
999GTS704	3340	ND-167U3	10 X 2	290	IG3000
999GTS705	2672	ND-167U3	8 X 2	232	IG2500-LV
999GTS706	2004	ND-167U3	12 X 1	248	IG2500-LV
999GTS707	2338	ND-167U3	14 X 1	406	IG2500-LV
999GTS710	3340	ND-167U3	10 X 2	290	IG4000
999GTS711	3674	ND-167U3	11 X 2	319	IG4000
999GTS712	4008	ND-167U3	12 X 2	348	IG4000

System part number	PV Array Watts @STC	PV Module model	PV# Series x parallel	PV String Voc (DC)	Grid Tie Inverter Model
999GTS713	4342	ND-167U3	13 X 2	377	IG4000
999GTS714	4509	ND-167U3	9 X 3	261	IG4000
999GTS715	4008	ND-167U3	8 X 3	232	IG4500-LV
999GTS716	4509	ND-167U3	9 X 3	261	IG4500-LV
999GTS717	5010	ND-167U3	10 X 3	290	IG4500-LV
999GTS720	4509	ND-167U3	9 X 3	261	IG5100
999GTS721	4676	ND-167U3	14 X 2	406	IG5100
999GTS722	5010	ND-167U3	10 X 3	290	IG5100
999GTS723	5511	ND-167U3	11 X 3	319	IG5100
999GTS724	6012	ND-167U3	12 X 3	248	IG5100
999GTS730	2004	ND-167U3	12 X 1	348	GT3.0
999GTS731	2338	ND-167U3	14 X 1	406	GT3.0
999GTS732	2672	ND-167U3	16 X 1	464	GT3.0
999GTS733	3006	ND-167U3	18 X 1	522	GT3.0
999GTS734	3674	ND-167U3	11 X 2	319	GT3.0
999GTS735	2338	ND-167U3	14 X 1	406	SB2500U
999GTS736	2672	ND-167U3	16 X 1	464	SB2500U
999GTS737	3006	ND-167U3	18 X 1	522	SB2500U
999GTS740	2004	ND-167U3	12 X 1	348	SB2500U-208
999GTS741	2338	ND-167U3	14 X 1	406	SB2500U-208
999GTS742	2672	ND-167U3	16 X 1	464	SB2500U-208
999GTS746	1336	ND-167U3	8 X 1	232	SB1800U
999GTS747	1503	ND-167U3	9 X 1	261	SB1800U
999GTS748	1670	ND-167U3	10 X 1	290	SB1800U
999GTS749	1837	ND-167U3	11 X 1	319	SB1800U
999GTS752	5678	ND-167U3	17 X 2	493	SB6000U
999GTS761	3340	ND-167U3	10 X 2	290	PVP2800-XV
999GTS770	3006	ND-167U3	6 X 3	174	JH3500U
999GTS780	4676	ND-167U3	14 X 2	406	SB6000U
999GTS781	5010	ND-167U3	15 X 2	435	SB6000U
999GTS782	5344	ND-167U3	16 X 2	464	SB6000U
999GTS783	6012	ND-167U3	18 X 2	522	SB6000U
999GTS784	6513	ND-167U3	13 X 3	377	SB6000U
999GTS785	7014	ND-167U3	14 X 3	406	SB6000U

Accepted A1706 (8/24/2006), Expires 8/29/2008