

California Energy Commission						
List of Approved Photovoltaic Modules for the Solar or Wind Energy System Credit						
2002 Tax Year						
Note: The presence or absence of any particular component or system from this list should not be construed as a statement of the quality or applicability of such hardware for any particular use.						
CEC Certifi- cation #	Make	Module Model Number	Description	PTC Rating (watts)	Begin Certified	End Certified
PV003	ASE Americas, Inc.	ASE-100-ATF/17-34	100W/17V EFG Module, framed	89.7	11/23/99	current
PV004	ASE Americas, Inc.	ASE-300-DGF/17-285	285W/17V EFG Module, framed	255.4	11/23/99	current
PV005	ASE Americas, Inc.	ASE-300-DGF/17-300	300W/17V EFG Module, framed	269.1	11/23/99	current
PV006	ASE Americas, Inc.	ASE-300-DGF/17-315	315W/17V EFG Module, framed	283.0	11/23/99	current
PV007	ASE Americas, Inc.	ASE-300-DGF/50-260	260W/50V EFG Module, framed	232.6	11/23/99	current
PV007a	ASE Americas, Inc.	ASE-300-DGF/50-285	285W/50V EFG Module, framed	255.4	1/15/02	current
PV008	ASE Americas, Inc.	ASE-300-DGF/50-300	300W/50V EFG Module, framed	269.1	11/23/99	current
PV009	AstroPower, Inc.	AP-100	100W Single Crystal Module (was AP-1006)	88.9	12/21/00	current
PV010	AstroPower, Inc.	AP-1006	100W Single Crystal Module	88.9	12/21/00	current
PV011	AstroPower, Inc.	AP-110	110W Single Crystal Module (was AP-1106)	97.9	12/21/00	current
PV012	AstroPower, Inc.	AP-1106	110W Single Crystal Module	97.9	11/23/99	current
PV013	AstroPower, Inc.	AP-120	120W Single Crystal Module (was AP-1206)	107.0	12/21/00	current
PV015	AstroPower, Inc.	AP-1206	120W Single Crystal Module	107.0	11/23/99	current
PV016	AstroPower, Inc.	AP-6105	65W Single Crystal Module	58.8	11/23/99	current
PV017	AstroPower, Inc.	AP-65	65W Single Crystal Module (was AP-6105)	58.8	12/21/00	current
PV018	AstroPower, Inc.	AP-7105	75W Single Crystal Module	68.0	11/23/99	current
PV019	AstroPower, Inc.	AP-75	75W Single Crystal Module (was AP-7105)	68.0	12/21/00	current
PV020	AstroPower, Inc.	APX-75	75W APex Module	64.8	11/23/99	current
PV021	AstroPower, Inc.	APX-80	80W APex Module	69.2	11/23/99	current
PV022	AstroPower, Inc.	APX-90	90W APex Module	77.8	11/23/99	current
PV023	AstroPower, Inc.	LAP-425	425W Single Crystal Large Area Panel, frameless	378.0	12/21/00	current
PV024	AstroPower, Inc.	LAP-440	440W Single Crystal Large Area Panel, frameless	391.8	11/23/99	current
PV025	AstroPower, Inc.	LAP-460	460W Single Crystal Large Area Panel, frameless	409.9	11/23/99	current
PV026	AstroPower, Inc.	LAP-480	480W Single Crystal Large Area Panel, frameless	428.2	11/23/99	current
PV027	AstroPower, Inc.	LAPX-300	300W APex Large Area Panel, frameless	259.2	11/23/99	current
PV028	Atlantis Energy, Inc.	AP-F	11.8W Shingle Module (Astropower cells)	10.7	11/23/99	current
PV029	Atlantis Energy, Inc.	AP-G	12.0W Shingle Module (Astropower cells)	10.8	11/23/99	current
PV030	Atlantis Energy, Inc.	AP-H	12.2W Shingle Module (Astropower cells)	11.0	11/23/99	current
PV031	Atlantis Energy, Inc.	SM-II	12.2W Shingle Module (Siemens cells)	11.0	11/23/99	current
PV031a	Atlantis Energy, Inc.	SP-A	13.3W Shingle Module (Sharp cells)	11.4	6/24/02	current
PV031b	Atlantis Energy, Inc.	SP-B	12.7W Shingle Module (Sharp cells)	10.9	6/24/02	current
PV031c	Atlantis Energy, Inc.	SP-C	11.9W Shingle Module (Sharp cells)	10.2	6/24/02	current

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PV032	Atlantis Energy, Inc.	SX-D	11.6W Shingle Module (Solarex cells)	10.5	11/23/99	current
PV033	Atlantis Energy, Inc.	SX-E	11.0W Shingle Module (Solarex cells)	9.9	11/23/99	current
PV034	BP Solar	BP SM3 150S	150W 24V Single Crystal Module, New AR, Multicontact conn.	131.1	8/6/01	current
PV035	BP Solar	BP SM3 160S	160W 24V Single Crystal Module, New AR, Multicontact conn.	140.0	8/6/01	current
PV036	BP Solar	BP SX 140S	140W 24V Polycrystalline Module w/Multicontact conn.	122.1	8/6/01	current
PV037	BP Solar	BP SX 150S	150W 24V Polycrystalline Module w/Multicontact conn.	131.1	8/6/01	current
PV038	BP Solar	BP SX3 150S	150W 24V Polycrystalline Module, New AR, Multicontact conn.	131.1	8/6/01	current
PV039	BP Solar	BP SX3 160B	160W 24V Polycrystalline Module, New AR, Multicontact, Bronze frame	140.0	8/6/01	current
PV040	BP Solar	BP SX3 160S	160W 24V Polycrystalline Module, New AR, Multicontact conn.	140.0	8/6/01	current
PV041	BP Solar	BP2140S	140W 24V Single Crystal Module w/Multicontact conn.	122.1	5/11/01	current
PV042	BP Solar	BP2150S	150W 24V Single Crystal Module w/Multicontact conn.	131.1	5/11/01	current
PV043	BP Solar	BP270U	70W BP Solar Single Crystal Module (universal frame)	61.0	5/11/01	current
PV044	BP Solar	BP270UL	70W Single Crystal Module	61.0	11/23/99	current
PV045	BP Solar	BP275U	75W Single Crystal Module (universal frame)	65.5	5/11/01	current
PV046	BP Solar	BP275UL	75W Single Crystal Module	65.5	11/23/99	current
PV046a	BP Solar	BP3123XR	123W Polycrystalline Module w/Multicontact conn.	108.2	4/12/02	current
PV046b	BP Solar	BP3126XR	126W Polycrystalline Module w/Multicontact conn.	110.86	9/19/02	current
PV046c	BP Solar	BP3140S	140W 24V Polycrystalline Module, New AR, Multicontact conn.	123.8	10/15/02	current
PV046d	BP Solar	BP3150S	150W 24V Polycrystalline Module, New AR, Multicontact conn.	131.0	1/24/02	current
PV046e	BP Solar	BP3160B	160W 24V Polycrystalline Module, New AR, Multicontact conn.	140.0	1/24/02	current
PV046f	BP Solar	BP3160S	160W 24V Polycrystalline Module, New AR, Multicontact conn.	140.0	1/24/02	current
PV046g	BP Solar	BP375S	75W Polycrystalline Module (universal frame), new AR, Multicontact conn.	65.5	1/31/02	current
PV046h	BP Solar	BP375U	75W Polycrystalline Module (universal frame), new AR	65.5	1/31/02	current
PV046i	BP Solar	BP380S	80W Polycrystalline Module (universal frame), new AR, Multicontact conn.	69.9	1/31/02	current

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PV046j	BP Solar	BP380U	80W Polycrystalline Module (universal frame), new AR	69.9	1/31/02	current
PV046k	BP Solar	BP4150S	150W 24V Single Crystal Module, New AR, Multicontact conn.	131.0	1/24/02	current
PV046l	BP Solar	BP4160S	160W 24V Single Crystal Module, new AR, Multicontact conn.	140.0	1/24/02	current
PV046m	BP Solar	BP475S	75W Single Crystal Module (universal frame), new AR, Multicontact conn.	65.5	1/31/02	current
PV046n	BP Solar	BP475U	75W Single Crystal Module (universal frame), new AR	65.5	1/31/02	current
PV046o	BP Solar	BP480S	80W Single Crystal Module (universal frame), new AR, Multicontact conn.	69.9	1/31/02	current
PV046p	BP Solar	BP480U	80W Single Crystal Module (universal frame), new AR	69.9	1/31/02	current
PV047	BP Solar	BP5160S	160W 24V Buried Grid Single Crystal Module w/Multicontact conn.	140.0	5/11/01	current
PV048	BP Solar	BP5170S	170W 24V Buried Grid Single Crystal Module w/Multicontact conn.	149.1	5/11/01	current
PV049	BP Solar	BP580U	80W Buried Grid Single Crystal Module (universal frame)	69.9	5/11/01	current
PV049a	BP Solar	BP585KD	85W Buried Grid Single Crystal Module (frameless) with special fasteners	74.4	1/31/02	current
PV050	BP Solar	BP585U	85W Buried Grid Single Crystal Module (universal frame)	74.4	5/11/01	current
PV051	BP Solar	BP585UL	85W Single Crystal Module	74.4	11/23/99	current
PV052	BP Solar	BP590UL	90W Single Crystal Module	78.97	11/23/99	current
PV052a	BP Solar	BP845I	45W Millenia 2J a-Si Module (medium voltage, integral frame)	42.38	9/19/02	current
PV052b	BP Solar	BP850I	50W Millenia 2J a-Si Module (medium voltage, integral frame)	47.11	9/19/02	current
PV052c	BP Solar	BP855I	55W Millenia 2J a-Si Module (medium voltage, integral frame)	51.85	9/19/02	current
PV052d	BP Solar	BP970B	70W Thin-film CdTe Laminate w/Mounting Brackets	62.3	1/24/02	current
PV052e	BP Solar	BP970I	70W Thin-film CdTe Module (Integral frame)	62.2	1/24/02	current
PV052f	BP Solar	BP980B	80W Thin-film CdTe Laminate w/Mounting Brackets	71.3	1/24/02	current
PV052g	BP Solar	BP980I	80W Thin-film CdTe Module (Integral frame)	71.2	1/24/02	current
PV052h	BP Solar	BP990B	90W Thin-film CdTe Laminate w/Mounting Brackets	80.4	1/24/02	current
PV052i	BP Solar	BP990I	90W Thin-film CdTe Module (Integral frame)	80.3	1/24/02	current

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CEC Certifi- cation #	Make	Module Model Number	Description	PTC Rating (watts)	Begin Certified	End Certified
PV053	BP Solar	MST-43I	43W Millennia 2J a-Si Module (med. voltage, Integra frame)	40.5	5/11/01	current
PV053a	BP Solar	MST-43LV	43W Millennia 2J a-Si Module, (low voltage, universal frame)	40.5	1/15/02	current
PV053b	BP Solar	MST-43MV	43W Millennia 2J a-Si Module (med. Voltage, universal frame)	40.5	1/15/02	current
PV053c	BP Solar	MST-45LV	45W Millennia 2J a-Si Module, (low voltage, universal frame)	42.4	3/19/02	current
PV053d	BP Solar	MST-45MV	45W Millennia 2J a-Si Module (med. Voltage, universal frame)	42.4	3/19/02	current
PV054	BP Solar	MST-50I	50W Millennia 2J a-Si Module (med. voltage, Integra frame)	47.1	5/11/01	current
PV054a	BP Solar	MST-50LV	50W Millennia 2J a-Si Module, (low voltage, universal frame)	47.1	1/15/02	current
PV054b	BP Solar	MST-50MV	50W Millennia 2J a-Si Module (med. Voltage, universal frame)	47.1	1/15/02	current
PV054c	BP Solar	MST-55MV	55W Millennia 2J a-Si Module (med. Voltage, universal frame)	51.86	9/19/02	current
PV055	BP Solar	MSX-80U	80W Solarex Polycrystalline Module (universal frame)	69.7	5/11/01	current
PV055aa	BP Solar	MSX-110	110W Solarex Polycrystalline Module	95.6	5/11/01	current
PV055a	BP Solar	MSX-120	120W Solarex Polycrystalline Module	104.5	5/11/01	current
PV055b	BP Solar	MSX-240	240W Solarex Polycrystalline Module	209.1	11/23/99	current
PV055c	BP Solar	MSX-50	50W Solarex Polycrystalline Module	43.5	11/23/99	current
PV055d	BP Solar	MSX-56	56W Solarex Polycrystalline Module	48.7	11/23/99	current
PV055e	BP Solar	MSX-60	60W Solarex Polycrystalline Module	52.2	11/23/99	current
PV055f	BP Solar	MSX-64	64W Solarex Polycrystalline Module	55.8	11/23/99	current
PV055g	BP Solar	MSX-77	77W Solarex Polycrystalline Module	67.0	11/23/99	current
PV055h	BP Solar	MSX-83	83W Solarex Polycrystalline Module	72.3	11/23/99	current
PV056	BP Solar	SX-110S	110W Solarex poly-Si Module (Univ. frame, Multicontact conn.)	95.6	5/11/01	current
PV056a	BP Solar	SX-110U	110W Solarex poly-Si Module (Univ. frame)	95.6	8/29/00	current
PV057	BP Solar	SX-120S	120W Solarex poly-Si Module (Univ. frame, Multicontact conn.)	104.6	5/11/01	current
PV057a	BP Solar	SX-120U	120W Solarex poly-Si Module (Univ. frame)	104.6	8/29/00	current
PV057b	BP Solar	SX-160S	160W 24V Polycrystalline Module w/Multicontact connection	141.96	11/19/02	current

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PV062	BP Solar	SX-40D	40W poly-Si Module (Direct-mount frame)	34.8	8/29/00	current
PV063	BP Solar	SX-40M	40W poly-Si Module (Multi-mount frame)	34.8	8/29/00	current
PV064	BP Solar	SX-40U	40W poly-Si Module (Univ. frame)	34.8	11/23/99	current
PV065	BP Solar	SX-50D	50W poly-Si Module (Direct-mount frame)	43.5	8/29/00	current
PV066	BP Solar	SX-50M	50W poly-Si Module (Multi-mount frame)	43.5	8/29/00	current
PV067	BP Solar	SX-50U	50W poly-Si Module (Univ. frame)	43.5	11/23/99	current
PV068	BP Solar	SX-55D	55W poly-Si Module (Direct-mount frame)	47.8	8/29/00	current
PV069	BP Solar	SX-55U	55W poly-Si Module (Univ. frame)	47.8	11/23/99	current
PV070	BP Solar	SX-60D	60W poly-Si Module (Direct-mount frame)	52.2	8/29/00	current
PV071	BP Solar	SX-60U	60W poly-Si Module (Univ. frame)	52.2	11/23/99	current
PV072	BP Solar	SX-65D	65W poly-Si Module (Direct-mount frame)	56.7	8/29/00	current
PV073	BP Solar	SX-65U	65W poly-Si Module (Univ. frame)	56.7	11/23/99	current
PV074	BP Solar	SX-75	75W poly-Si Module	65.2	11/23/99	current
PV074a	BP Solar	SX-75TS	75W Solarex poly-Si Module (125 mm cells, Low-Profile/MC)	65.4	1/24/02	current
PV074b	BP Solar	SX-75TU	75W Solarex poly-Si Module (125 mm cells, SPJB)	65.4	1/24/02	current
PV075	BP Solar	SX-80	80W poly-Si Module	69.7	11/23/99	current
PV076	BP Solar	SX-85	85W poly-Si Module	74.1	11/23/99	current
PV076a	BP Solar	TF-80B	80W Thin-film CdTe Laminate w/ Mounting Brackets	71.3	5/17/01	current
PV076b	BP Solar	TF-80I	80W Thin-film CdTe Module (Integra frame)	71.2	5/17/01	current
PV076c	BP Solar	TF-90B	90W Thin-film CdTe Laminate w/Mounting Brackets (now BP990B)	80.4	5/9/02	current
PV076d	BP Solar	TF-90I	90W Thin-film CdTe Module (Integra frame) (now BP990I)	80.3	5/9/02	current
PV077	BP Solar	VLX-53	53W Value-Line poly-Si Module	46.2	11/23/99	current
PV079	BP Solar	VLX-80	80W Value-Line poly-Si Module	69.7	11/23/99	current
PV080	Dunasolar Inc.	DS-30	30W Unframed 2J a-Si Module	28.8	10/22/01	current
PV081	Dunasolar Inc.	DS-40	40W Unframed 2J a-Si Module	38.4	10/22/01	current
PV082	Energy Photovoltaics, Inc.	EPV-30	30W Unframed 2J a-Si Module	28.8	11/23/99	current
PV083	Energy Photovoltaics, Inc.	EPV-40	40W Unframed 2J a-Si Module	38.4	11/23/99	current
PV084	Evergreen Solar	E-25	25W String Ribbon poly-Si Module	22.2	11/23/99	current
PV085	Evergreen Solar	E-28	28W String Ribbon poly-Si Module	24.9	11/23/99	current
PV086	Evergreen Solar	E-30	30W String Ribbon poly-Si Module	26.7	11/23/99	current
PV087	Evergreen Solar	E-50	50W String Ribbon poly-Si Module	44.4	11/23/99	current
PV088	Evergreen Solar	E-56	56W String Ribbon poly-Si Module	49.8	11/23/99	current
PV089	Evergreen Solar	E-60	60W String Ribbon poly-Si Module	53.4	11/23/99	current

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PV090	Evergreen Solar	EC-102	102W Cedar Line module	91.2	8/24/01	current
PV091	Evergreen Solar	EC-110	110W Cedar Line module	98.4	8/24/01	current
PV092	Evergreen Solar	EC-47	47W Cedar Line module	41.9	8/24/01	current
PV093	Evergreen Solar	EC-51	51W Cedar Line module	45.6	8/24/01	current
PV094	Evergreen Solar	EC-55	55W Cedar Line module	49.2	8/24/01	current
PV095	Evergreen Solar	EC-94	94W Cedar Line module	83.9	8/24/01	current
PV096	Evergreen Solar	ES-112	112W String Ribbon poly-Si AC Module (with Trace MS100)	99.7	11/23/99	9/30/02
PV097	Evergreen Solar	ES-240	240W String Ribbon poly-Si AC Module (with AES MI-250)	213.8	11/23/99	9/30/02
PV098	First Solar, LLC	FS-50	50W/65V Thin Film CdTe laminate	47.6	8/6/01	current
PV099	First Solar, LLC	FS-50C	50W/65V Thin Film CdTe laminate w/ C-channel mounting rails	47.6	8/6/01	current
PV100	First Solar, LLC	FS-50Z	50W/65V Thin Film CdTe laminate w/ Z-channel mounting rails	47.6	8/6/01	current
PV101	Kyocera America	KC120-1	120W High Efficiency Multicrystal PV Module	105.7	11/23/99	current
PV101a	Kyocera America	KC158G	158W High Efficiency Multicrystal PV Module	139.7	6/24/02	current
PV102	Kyocera America	KC50	50W High Efficiency Multicrystal PV Module	43.9	12/26/01	current
PV103	Kyocera America	KC60	60W High Efficiency Multicrystal PV Module	52.7	11/23/99	current
PV103a	Kyocera America	KC70	70 W High Efficiency Multicrystal PV Module	61.6	1/15/02	current
PV104	Kyocera America	KC80	80W High Efficiency Multicrystal PV Module	70.4	11/23/99	current
PV105	Matrix Solar	PW1000-100	100W Large Scale Dual Voltage multi-Si Module	90.0	7/20/00	current
PV106	Matrix Solar	PW1000-105	105W Large Scale Dual Voltage multi-Si Module	94.6	7/20/00	current
PV107	Matrix Solar	PW1000-90	90W Large Scale Dual Voltage multi- Si Module	80.9	7/20/00	current
PV108	Matrix Solar	PW1000-95	95W Large Scale Dual Voltage multi- Si Module	85.4	7/20/00	current
PV108a	Matrix Solar	PW1250-115	115W Large Scale Dual Voltage Multi-Si Module	103.7	9/5/02	current
PV108b	Matrix Solar	PW1250-125	125W Large Scale Dual Voltage Multi-Si Module	112.9	9/5/02	current
PV108c	Matrix Solar	PW1250-135	135W Large Scale Dual Voltage Multi-Si Module	122.2	9/5/02	current
PV108d	Matrix Solar	PW1650-155	155W Large Scale Dual Voltage Multi-Si Module	139.9	9/5/02	current
PV108e	Matrix Solar	PW1650-165	165W Large Scale Dual Voltage Multi-Si Module	149.0	9/5/02	current
PV108f	Matrix Solar	PW1650-175	175W Large Scale Dual Voltage Multi-Si Module	158.3	9/5/02	current
PV109	Matrix Solar	PW750-70	70W Large Scale multi-Si Module	62.9	7/20/00	current
PV110	Matrix Solar	PW750-75	75W Large Scale multi-Si Module	67.5	7/20/00	current

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PV111	Matrix Solar	PW750-80	80W Large Scale multi-Si Module	72.0	7/20/00	current
PV112	Midway Labs, Inc.	MLB3416-115	115W Concentrator (335x) Module	105.0	11/23/99	current
PV114	Powerlight Corp.	PL-AP-120L	120W PowerGuard Roof Tile (Astropower)	104.9	11/28/01	current
PV115	Powerlight Corp.	PL-AP-130	130W PowerGuard Roof Tile (Astropower AP-130)	115.1	2/17/00	current
PV115a	Powerlight Corp.	PL-AP-65	One Astropower AP-65 laminate mounted on one PowerGuard backerboard	56.6	9/3/02	current
PV115b	Powerlight Corp.	PL-AP-65 Double module	Two Astropower AP-65 laminates mounted on one PowerGuard backerboard	113.2	9/3/02	current
PV116	Powerlight Corp.	PL-AP-75 Double Module	150W PowerGuard Roof Tile (Two Astropower modules)	131.1	11/28/01	current
PV116a	Powerlight Corp.	PL-Apx-110-SL	110W PowerGuard Roof Tile (AstroPower)	93.7	11/15/02	current
PV117	Powerlight Corp.	PL-ASE-100	100W PowerGuard Roof Tile (ASE Americas)	88.6	2/17/00	current
PV118	Powerlight Corp.	PL-BP-2150S	150W PowerGuard Roof Tile (BP Solar)	129.2	7/20/01	current
PV119	Powerlight Corp.	PL-BP-TF-80L	80W PowerGuard Roof Tile (BP Solar)	70.7	7/20/01	current
PV120	Powerlight Corp.	PL-FS-415-A	50W PowerGuard Roof Tile (First Solar)	47.4	10/9/00	current
PV121	Powerlight Corp.	PL-MST-43	43W PowerGuard Roof Tile (Solarex a-Si)	40.5	5/9/00	current
PV122	Powerlight Corp.	PL-MSX-120	120W PowerGuard Roof Tile (Solarex poly-Si)	103.7	5/19/00	current
PV123	Powerlight Corp.	PL-PW-750	75-80W PowerGuard Roof Tile (Matrix Solar/Photowatt)	69.9	10/3/01	current
PV123a	Powerlight Corp.	PL-PW-750 Double Module	150W PowerGuard Roof Tile (two Matrix Solar Photowatt modules)	135.3	3/19/02	current
PV124	Powerlight Corp.	PL-SP-135	135W PowerGuard Roof Tile (Siemens)	119.8	2/17/00	current
PV125	Powerlight Corp.	PL-SP-150-24L	150W PowerGuard Roof Tile (Rectangular Siemens)	133.5	11/28/01	current
PV126	Powerlight Corp.	PL-SP-150-CPL	150W PowerGuard Roof Tile (Siemens)	133.6	5/14/01	current
PV127	Powerlight Corp.	PL-SP-75	75W PowerGuard Roof Tile (Siemens)	66.8	11/28/01	current
PV128	Powerlight Corp.	PL-SP-75 Double Module	150W PowerGuard Roof Tile (Two Siemens modules)	133.7	11/28/01	current
PV128a	Powerlight Corp.	PL-SY-HIP-H552BA2	175W PowerGuard Roof Tile (Sanyo)	162.2	5/9/02	current
PV128b	Sanyo Electric Co. Ltd.	HIP-G751BA1	167W HIT Hybrid a-Si/c-Si Solar Cell Module (std.j.b.)	155.8	3/22/02	current
PV128c	Sanyo Electric Co. Ltd.	HIP-G751BA2	167W HIT Hybrid a-Si/c-Si Solar Cell Module (std.j.b. w/addl wiring)	155.8	3/22/02	current

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CEC Certifi- cation #	Make	Module Model Number	Description	PTC Rating (watts)	Begin Certified	End Certified
PV128d	Sanyo Electric Co. Ltd.	HIP-H55BA1	175W HIT Hybrid a-Si/c-Si Solar Cell Module (std.j.b.)	163.3	4/4/02	current
PV128e	Sanyo Electric Co. Ltd.	HIP-H55BA2	175W HIT Hybrid a-Si/c-Si Solar Cell Module (std.j.b. w/addl wiring)	163.3	4/4/02	current
PV128f	Sanyo Electric Co. Ltd.	HIP-J54BA1	180W HIT Hybrid a-Si/c-Si Solar Cell Module (std.j.b.)	168.1	3/22/02	current
PV128g	Sanyo Electric Co. Ltd.	HIP-J54BA2	180W HIT Hybrid a-Si/c-Si Solar Cell Module (std.j.b. w/addl wiring)	168.1	3/22/02	current
PV128h	Schott Applied Power Corp.	SAPC-123	123W Multisilicon Module	107.8	5/21/02	current
PV128i	Schott Applied Power Corp.	SAPC-165	165W Multicrystalline Silicon Module	144.8	1/28/02	current
PV128j	Schott Applied Power Corp.	SAPC-80	80W Multisilicon Module	70.2	5/21/02	current
PV128k	Sharp Corporation	ND-L3E1U	123W Multisilicon Module	107.8	5/24/02	current
PV128l	Sharp Corporation	ND-Q0E2U	160W Multisilicon Module	140.2	5/24/02	current
PV128m	Sharp Corporation	NE-80E1U	80W Multisilicon Module	70.2	4/4/02	current
PV128n	Sharp Corporation	NE-K125U1	125W Multisilicon Module (non-flat screw type, black color frame)	109.8	4/4/02	current
PV128o	Sharp Corporation	NE-K125U2	125W Multisilicon Module (flat screw type)	109.8	5/9/02	current
PV128p	Sharp Corporation	NE-Q5E1U	165W Multisilicon Module (non-flat screw type)	144.8	4/4/02	current
PV128q	Sharp Corporation	NE-Q5E2U	165W Multisilicon Module (flat screw type)	144.8	5/9/02	current
PV128r	Sharp Corporation	NT-5E1U	175W Multisilicon module	153.8	9/10/02	current
PV129	Shell Solar Industries, formerly Siemens Solar	SM10	10W PowerMax Module	9.0	11/23/99	current
PV130	Shell Solar Industries, formerly Siemens Solar	SM-110	110W PowerMax Module	99.2	11/23/99	current
PV131	Shell Solar Industries, formerly Siemens Solar	SM20	20W Powermax Module	18.0	11/23/99	current
PV132	Shell Solar Industries, formerly Siemens Solar	SM46	46W PowerMax Module	41.5	11/23/99	current
PV133	Shell Solar Industries, formerly Siemens Solar	SM46J	46W PowerMax Module w/conduit-ready J-box	41.5	11/23/99	current
PV134	Shell Solar Industries, formerly Siemens Solar	SM50	50W PowerMax Module	45.0	11/23/99	current
PV135	Shell Solar Industries, formerly Siemens Solar	SM50-H	50W 33 cell Powermax module	45.1	11/23/99	current

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CEC Certifi- cation #	Make	Module Model Number	Description	PTC Rating (watts)	Begin Certified	End Certified
PV136	Shell Solar Industries, formerly Siemens Solar	SM50-HJ	50W 33 cell PowerMax Module w/ conduit-ready J-box	45.1	11/23/99	current
PV137	Shell Solar Industries, formerly Siemens Solar	SM50-J	50W PowerMax Module w/ conduit- ready J-box	45.0	11/23/99	current
PV138	Shell Solar Industries, formerly Siemens Solar	SM55	55W PowerMax module	49.6	11/23/99	current
PV139	Shell Solar Industries, formerly Siemens Solar	SM55-J	55W PowerMax Module w/conduit- ready J-box	49.6	11/23/99	current
PV140	Shell Solar Industries, formerly Siemens Solar	SM6	6 W PowerMax Module	5.4	11/23/99	current
PV141	Shell Solar Industries, formerly Siemens Solar	SP130-24P	130W 24V PowerMax Module	116.7	5/11/01	current
PV141a	Shell Solar Industries, formerly Siemens Solar	SP130-PC	130W PowerMax Mono-crystalline module with cable assembly	116.6	12/20/02	current
PV142	Shell Solar Industries, formerly Siemens Solar	SP140-24P	140W 24V PowerMax Module	125.8	5/11/01	current
PV142a	Shell Solar Industries, formerly Siemens Solar	SP140-PC	140W PowerMax mono-crystalline module with cable assembly	125.8	12/20/02	current
PV143	Shell Solar Industries, formerly Siemens Solar	SP150-24P	150W 24V PowerMax Module	134.9	5/11/01	current
PV143a	Shell Solar Industries, formerly Siemens Solar	SP150-PC	150W PowerMax mono-crystalline module with cable assembly	134.9	12/20/02	current
PV144	Shell Solar Industries, formerly Siemens Solar	SP18	18W 6V/12V PowerMax Module	16.2	11/23/99	current
PV145	Shell Solar Industries, formerly Siemens Solar	SP36	36W 6V/12V PowerMax Module	32.4	11/23/99	current
PV146	Shell Solar Industries, formerly Siemens Solar	SP65	65W 6V/12V PowerMax Module	58.4	11/23/99	current
PV147	Shell Solar Industries, formerly Siemens Solar	SP70	70W 6V/12V PowerMax Module	62.9	11/23/99	current
PV148	Shell Solar Industries, formerly Siemens Solar	SP75	75W 6V/12V PowerMax Module	67.5	11/23/99	current

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PV149	Shell Solar Industries, formerly Siemens Solar	SR100	100W 6V/12V PowerMax Module	89.9	11/23/99	current
PV150	Shell Solar Industries, formerly Siemens Solar	SR50	50W 6V/12V PowerMax Module	44.9	11/23/99	current
PV151	Shell Solar Industries, formerly Siemens Solar	SR90	90W 6V/12V PowerMax Module	80.8	11/23/99	current
PV152a	Shell Solar Industries, formerly Siemens Solar	ST36	36W 12V PowerMax Module	31.7	1/24/02	current
PV153a	Shell Solar Industries, formerly Siemens Solar	ST40	40W 12V PowerMax Module	35.3	1/24/02	current
PV173	Solec International, Inc.	S-055	55W Framed Crystalline Solar Electric Module	47.7	11/23/99	current
PV174	Solec International, Inc.	S-100D	100W Dual Voltage Crystalline Solar Electric Module	86.5	11/23/99	current
PV175	Solec International, Inc.	SQ-080	80W Framed Crystalline Solar Electric Module	68.9	11/23/99	current
PV176	Solec International, Inc.	SQ-090	90W Framed Crystalline Solar Electric Module	77.8	11/23/99	current
PV177	United Solar Systems Corp.	ASR-120	120W Arch. Standing Seam 3J a-Si Module	110.9	11/23/99	current
PV178	United Solar Systems Corp.	ASR-128	128W Arch. Standing Seam 3J a-Si Module	118.3	11/23/99	current
PV179	United Solar Systems Corp.	ASR-60	60W Arch. Standing Seam 3J a-Si Module	55.4	11/23/99	current
PV180	United Solar Systems Corp.	ASR-64	64W Arch. Standing Seam 3J a-Si Module	59.1	11/23/99	current
PV180a	United Solar Systems Corp.	PVL-116(DM)	116W Field Applied 3J a-Si Laminate, Deck-Mounted	107.4	3/22/02	current
PV180b	United Solar Systems Corp.	PVL-116(PM)	116W Field Applied 3J a-Si Laminate, Purlin-Mounted	109.9	3/22/02	current
PV181	United Solar Systems Corp.	PVL-128(DM)	128W Field Applied 3J a-Si Laminate, Deck-Mounted	118.4	10/18/00	current
PV182	United Solar Systems Corp.	PVL-128(PM)	128W Field Applied 3J a-Si Laminate, Purlin-Mounted	121.2	10/18/00	current
PV182a	United Solar Systems Corp.	PVL-29(DM)	29W Field Applied 3J a-Si Laminate, Deck Mounted	26.9	3/22/02	current
PV182b	United Solar Systems Corp.	PVL-29(PM)	29W Field Applied 3J a-Si Laminate, Purlin-Mounted	27.5	3/22/02	current
PV182c	United Solar Systems Corp.	PVL-58(DM)	58W Field Applied 3J a-Si Laminate, Deck Mounted	53.7	3/22/02	current
PV182d	United Solar Systems Corp.	PVL-58(PM)	58W Field Applied 3J a-Si Laminate, Purlin-Mounted	55.0	3/22/02	current
PV183	United Solar Systems Corp.	PVL-64(DM)	64W Field Applied 3J a-Si Laminate, Deck-Mounted	59.2	10/18/00	current

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PV184	United Solar Systems Corp.	PVL-64(PM)	64W Field Applied 3J a-Si Laminate, Purlin-Mounted	60.6	10/18/00	current
PV184a	United Solar Systems Corp.	PVL-87(DM)	87W Field Applied 3J a-Si Laminate, Deck-Mounted	80.6	3/22/02	current
PV184b	United Solar Systems Corp.	PVL-87(PM)	87W Field Applied 3J a-Si Laminate, Purlin-Mounted	82.5	3/22/02	current
PV185	United Solar Systems Corp.	SHR-15	15W Shingle 3J a-Si Module	13.9	11/23/99	current
PV186	United Solar Systems Corp.	SHR-17	17W Shingle 3J a-Si Module	15.7	11/23/99	current
PV187	United Solar Systems Corp.	SSR-120	120W Structural Standing Seam 3J a-Si Module	113.5	11/23/99	current
PV188	United Solar Systems Corp.	SSR-120(DM)	120W Structural Standing Seam 3J a-Si Module, Deck-Mounted	110.9	10/18/00	current
PV189	United Solar Systems Corp.	SSR-120J	120W Structural Standing Seam 3J a-Si Module w/J-box	113.5	11/23/99	current
PV190	United Solar Systems Corp.	SSR-120J(DM)	120W Structural Standing Seam 3J a-Si Module w/J-box, Deck-Mounted	110.9	10/18/00	current
PV191	United Solar Systems Corp.	SSR-128	128W Structural Standing Seam 3J a-Si Module	121.1	11/23/99	current
PV192	United Solar Systems Corp.	SSR-128(DM)	128W Structural Standing Seam 3J a-Si Module, Deck-Mounted	118.3	10/18/00	current
PV193	United Solar Systems Corp.	SSR-128J	128W Structural Standing Seam 3J a-Si Module w/J-box	121.1	11/23/99	current
PV194	United Solar Systems Corp.	SSR-128J(DM)	128W Structural Standing Seam 3J a-Si Module w/J-box, Deck-Mounted	118.3	10/18/00	current
PV195	United Solar Systems Corp.	SSR-60	60W Structural Standing Seam 3J a-Si Module	56.8	11/23/99	current
PV196	United Solar Systems Corp.	SSR-60(DM)	60W Structural Standing Seam 3J a-Si Module, Deck-Mounted	55.4	10/18/00	current
PV197	United Solar Systems Corp.	SSR-60J	60W Structural Standing Seam 3J a-Si Module w/J-box	56.8	11/23/99	current
PV198	United Solar Systems Corp.	SSR-60J(DM)	60W Structural Standing Seam 3J a-Si Module w/J-box, Deck-Mounted	55.4	10/18/00	current
PV199	United Solar Systems Corp.	SSR-64	64W Structural Standing Seam 3J a-Si Module	60.6	11/23/99	current
PV200	United Solar Systems Corp.	SSR-64(DM)	64W Structural Standing Seam 3J a-Si Module, Deck-Mounted	59.1	10/18/00	current
PV201	United Solar Systems Corp.	SSR-64J	64W Structural Standing Seam 3J a-Si Module w/J-box	60.6	11/23/99	current
PV202	United Solar Systems Corp.	SSR-64J(DM)	64W Structural Standing Seam 3J a-Si Module w/J-box, Deck-Mounted	59.1	10/18/00	current
PV202a	United Solar Systems Corp.	US-116	116W Framed Triple-Junction a-Si Module	109.9	3/22/02	current

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PV203	United Solar Systems Corp.	US-32	32W Framed Triple-Junction a-Si Module	30.3	11/23/99	current
PV204	United Solar Systems Corp.	US-39	39W Framed Triple-Junction a-Si Module	36.9	11/23/99	current
PV205	United Solar Systems Corp.	US-42	42W Framed Triple-Junction a-Si Module	39.8	11/23/99	current
PV206	United Solar Systems Corp.	US-60	60W Framed Triple-Junction a-Si Module	56.8	11/23/99	current
PV207	United Solar Systems Corp.	US-64	64W Framed Triple-Junction a-Si Module	60.6	11/23/99	current