

ERRATA SHEET

For 2007-2008 Renewable Energy Design Guide & Catalog

Updated October 21, 2007

Updated/corrected information is in red.

SYSTEMS & DESIGN

p. 10

Grid-tie systems with inverters installed indoors (see table at bottom for batteries)								
PV watts	Module Quantity	Module Brand & watts	System CEC watts	Inverter Model	Backup watts	Output VAC	Item code	Price
2850	15	Evergreen 190	2304	OutBack FLEXware system with one GVFX3648	3600	120	10.6728	\$22,392

The OutBack PS1 line has been discontinued. The middle table on page 10 in the printed catalog, plus top line of the bottom table are therefor eliminated.

p. 11

Deleted the first paragraph under **Inverters for Grid-Tie with Battery Backup.** (PS1 discontinued.)

SOLAR POWER

p.16

Evergreen Solar Spruce 200W modules (ES-200) will not be available until 2008.

p.19

The Global Solar CIGS table has many changes. Here's the entire correct table:

Module		GSE120	GSE60	GSE 30	GSE 12	GSE 6
Peak power	watts	120	60	30	12	6
Peak power voltage	volts	37.0	17.5	17.5	15.8	15.8
Peak power current	amps	3.24	3.5	1.7	0.76	0.38
Open circuit voltage	volts	52	25	25	23	23
Short circuit current	amps	4.1	4.5	2.2	0.9	0.45
Length	inches	46	25	24.4	17.88	17.88
Width	inches	49.5	46.5	25	16.38	9
Depth	inches	1.65	1.36	1.36	0.83	0.83
Weight	lbs	37.5	19.8	11	4.5	2.8
Item code		11.2949	11.2951	11.2953	11.2958	11.2963
Price		\$850	\$460	\$260	\$130	\$75

p. 23

The following SUNLINQ Folding Solar Modules information table was inadvertently left out (on next page):

Module		SP25	SP12	SP6.5
Peak Power	Watts	25	12	6.5
Nominal Voltage	Volts	12	12	12
Maximum Voltage	Volts	30	15.6	15.6
Peak Power Current	Amps	1.5	0.80	0.43
Typical Power	Watts	25	11	5.5
Dimensions (opened)	Inches	41.25 x 21.50 x 0.03	29.5 x 18 x 0.03	29.5 x 9 x 0.03
Dimensions (folded)	Inches	11 x 8.25 x 0.7	9 x 5 x 0.7	9 x 5 x 0.7
Weight	Lbs.	1.8	0.9	0.45
Item Code		11.2930	11.2932	11.2936
Price		\$399.00	\$199.00	\$99.00

MOUNTING STRUCTURES

p. 32

UniRac part #	Description	Wt. (lbs)	Item code	Price
310068	1 ea. L-foot	0.5	14.0884	\$4.70

p. 34

QuickMount model	Description	Wt (lbs)	Item code	Price
QM5C-A 12	Standard 12" x 12" Mount – 12 Pack	19	14.6315	\$336
QM5C-A 12	Standard 18" x 18" Mount – 12 Pack	30	14.6319	\$456

p. 41

Model	ProSolar support rails and accessories	Weight	Item code	Price
P-CN-10	Channel nuts – bag of 10; One nut required for each mid clamp and end clamp	0.2	15.0116	\$5.60

p. 43

Module	UniRac part #	No. of modules	Pole size (sched 40)	Item code	Price
SolarWorld SW165 mono SW175 mono	500027	1	2.5	14.2409	\$140
	500105	2	3	14.2509	\$263
	500237	3	4	14.2628	\$439
	500348	4	4	14.2675	\$557
	501489	6	6	14.2833	\$974
Mitsubishi MF165EB3 MF170EB3 MF175UD4 MF180UD4	500014	1	2.5	14.2389	\$151
	500131	2	3	14.2561	\$299
	500227	3	4	14.2615	\$465
	500340	4	4	14.2671	\$587
	500461	6	6	14.2783	\$988

p. 44

On the PowerFab Top Pole Mounts, special powder-coated mounts and stainless steel hardware are also available for harsh environment applications. Call for additional pricing.

p. 45

Module Type	DP&W Top Pole Mount part #	No. of modules	Pole size schd 40	Item code	Price
AE80J	DP-TPM1-AE85	1	2	13.4060	\$139
	DP-TPM2-AE85	2	2	13.4061	\$149
	DP-TPM4-AE85	4	3	13.4063	\$310
	DP-TPM6-AE85	6	4	13.4065	\$500
	DP-TPM8-AE85	8	4	13.4066	\$594
	DP-TPM10-AE85	10	6	13.4068	\$915

Mitsubishi MF175UD4 MF180UD4 MF185UD4	DP-TPM1-MT175	1	2	13.5080	\$144
	DP-TPM2-MT175	2	3	13.5081	\$310
	DP-TPM3-MT175	3	4	13.5082	\$473
	DP-TPM4-MT175	4	4	13.5083	\$570
	DP-TPM6-MT175	6	6	13.5085	\$920
	DP-TPM8-MT175	8	6	13.5086	\$1,180
	DP-TPM10-MT175	10	8	13.5087	\$1,510
	DP-TPM12-MT175	12	8	13.5088	\$1,945
	DP-TPM14-MT175*	14	8	13.5089	\$2,145
	DP-TPM16-MT170*	16	8	13.5090	\$2,575

MICRO HYDROPOWER

p. 60

Description	Item code	Price
Harris PM 1-Nozzle 12/24V/48V	17.1030	\$2,300
Harris PM 2-Nozzle 12/24V/48V	17.1032	\$2,387
Harris PM 4-Nozzle 12/24V/48V	17.1034	\$2,555
Fan kit (recommended when producing over 500W)	17.1092	\$70

Item 17.1036 deleted: It no longer needed as all models now support 48V operation. Last item above (fan kit) is a new addition.

CHARGE CONTROLLERS

p. 72

Model	Description	Item code	Price
AGS-S	Automatic generator start standalone	20.6375	\$299
AGS	Automatic generator start – Magnum network version – Use with Magnum inverters only	20.6377	\$299

p. 79

Sunny Tower 36kW and 42 kW Systems

At the end of first paragraph ...

The system is NEMA 3R outdoor rated and is designed for use **only in three-phase systems** at 208 VAC, 240 VAC or 277 VAC. Total weight is 1,115 lbs. (Tower is 330 lbs, plus six inverters.) **Note: A Sunny Tower cannot be used with less than six inverters.**

INVERTERS

p. 84

Xantrex model	Maximum DC array amps	Maximum DC array volts	MPPT input voltage range	CEC Efficiency 208/240	Item code	Price
GT solar inverter monitor	Monitor up to 5 inverters. Use Cat-5 cable to connect				30.1838	\$300

p. 87

OutBack Outdoor Systems

The PS1 inverter systems have been discontinued by OutBack. This section and table are thus deleted.

OutBack Indoor Systems

All prices in this table have changed.

Model	FLEXware type	Inverter(s) qty - model	Rated power kW - AC output	DC voltage	Battery charger	Item code	Price
Indoor sealed grid-tie systems							
OBFW5-GTFX2524/S	500	1 – GTFX2524	2.5kW 120V	24 VDC	55 AMP	33.0201	\$4,649
OBFW5-GTFX2524/D	500	2 – GTFX2524	5kW 120/240V	24 VDC	110 AMP	33.0203	\$7,391
OBFW5-GTFX3048/S	500	1 – GTFX3048	3.0kW 120V	48 VDC	35 AMP	33.0209	\$4,452
OBFW5-GTFX3048/D	500	2 – GTFX3048	6.0kW 120/240V	48 VDC	70 AMP	33.0211	\$7,350
Indoor ventilated grid-tie systems							
OBFW5-GVFX3524/S	500	1 – GVFX3524	3.5kW 120V	24 VDC	85 AMP	33.0205	\$4,741
OBFW5-GVFX3524/D	500	2 – GVFX3524	7kW 120/240V	24 VDC	170 AMP	33.0207	\$7,649
OBFW5-GVFX3648/S	500	1 – GVFX3648	3.6kW 120V	48 VDC	45 AMP	33.0213	\$4,850
OBFW5-GVFX3648/D	500	2 – GVFX3648	7.2kW 120/240V	48 VDC	90 AMP	33.0215	\$7,779
OBFW-O-MX60	OutBack MX60 charge controller with breaker, installed in power system					33.1513	\$795

p. 88

New product in Xantrex XW table:

XW-system control panel	Plugs into Xanbus network and provides a central user interface	30.1181	\$300
-------------------------	-----------------------------------------------------------------	---------	-------

p. 93

New product added to bottom table ...

Model	FLEXware options	Item code	Price
OBDC-GFP	Ground Fault Protection, 2 pole, 80A	30.4323	\$129

All the OutBack prices on this page have changed.

Model	FLEXware type	Inverter(s) qty - model	Rated power kW - AC output	DC voltage	Battery charger	Item code	Price
OBFW5-FX2012T/S	500	1 – FX2012T	2.0kW 120V	24 VDC	80 AMP	33.0321	\$4,506
OBFW5-FX2012T/D	500	2 – FX2012T	4.0kW 120/240V	24 VDC	160 AMP	33.0323	\$7,802
OBFW5-VFX2812/S	500	1 – VFX2812	2.8kW 120V	48 VDC	125 AMP	33.0325	\$4,740
OBFW5-VFX2812/D	500	2 – VFX2812	5.6kW 120/240V	48 VDC	250 AMP	33.0327	\$8,202
OBFW5-FX2524T/S	500	1 – FX2524T	2.5kW 120V	24 VDC	55 AMP	33.0329	\$4,649
OBFW5-FX2524T/D	500	2 – FX2524T	5.0kW 120/240V	24 VDC	110 AMP	33.0331	\$7,795
OBFW5-VFX3524/S	500	1 – VFX3524	3.5kW 120V	24 VDC	85 AMP	33.0333	\$4,959
OBFW5-VFX3524/D	500	2 – VFX3524	7.0kW 120/240V	24 VDC	170 AMP	33.0335	\$8,279
OBFW5-FX3048T/S	500	1 – FX3048T	3.0kW 120V	48 VDC	35 AMP	33.0337	\$4,575
OBFW5-FX3048T/D	500	2 – FX3048T	6.0kW 120/240V	48 VDC	70 AMP	33.0339	\$7,633
OBFW5-VFX3648/S	500	1 – VFX3648	3.6kW 120V	48 VDC	45 AMP	33.0341	\$4,734
OBFW5-VFX3648/D	500	2 – VFX3648	7.2kW 120/240V	48 VDC	90 AMP	33.0343	\$7,886
OBFW10-FX2524T/D	1000	2 – FX2524T	5.0kW 120/240V	24 VDC	110 AMP	33.0365	\$8,699
OBFW10-FX2524T/Q	1000	4 – FX2524T	10.0kW 120/240V	24 VDC	220 AMP	33.0367	\$13,943
OBFW10-VFX3524/D	1000	2 – VFX3524	7.0kW 120/240V	24 VDC	170 AMP	33.0369	\$9,345
OBFW10-VFX3524/Q	1000	4 – VFX3524	14.0kW 120/240V	24 VDC	340 AMP	33.0371	\$14,793
OBFW10-FX3048T/D	1000	2 – FX3048T	6.0kW 120/240V	48 VDC	70 AMP	33.0373	\$8,437
OBFW10-FX3048T/Q	1000	4 – FX3048T	12.0kW 120/240V	48 VDC	140 AMP	33.0375	\$13,592
OBFW10-VFX3648/D	1000	2 – VFX3648	7.2kW 120/240V	48 VDC	90 AMP	33.0377	\$8,833
OBFW10-VFX3648/Q	1000	4 – VFX3648	14.4kW 120/240V	48 VDC	180 AMP	33.0379	\$15,828
FLEXware 500 and 1000 power systems installed options							
OutBack MX60	One OutBack MX60 60-amp charge controller mounted on FLEXware side with breaker					33.1513	\$795
2 x OutBack MX60	Two OutBack MX60 60-amp charge controller mounted on FLEXware side with breakers					33.1515	\$1601
2 x OutBack MX60	Two OutBack MX60 60-amp charge controller mounted on FLEXware top with breakers					33.1517	\$1565
Trimetric meter	Amp-hour meter – installed in PSDC 24 volt system					33.1215	\$273
Trimetric meter	Amp-hour meter – installed in PSDC 48 volt system					33.1216	\$282
OBDC-GFP2	Ground fault interrupter for PV array installed in DC system box					33.1221	\$171
OBDC-100	100-amp DC load breaker installed in system					33.1227	\$65
OBDC-80	80-amp DC load breaker installed in system					33.1228	\$42
OBDC-60	60-amp DC load breaker installed in system					33.1229	\$33
OBDC-40	40-amp DC load breaker installed in system					33.1231	\$23
OBDC-30	30-amp DC load breaker installed in system					33.1233	\$49
OBDC-15	15-amp DC load breaker installed in system					33.1235	\$30
OBDC-10	10-amp DC load breaker installed in system					33.1237	\$47
OBDC-1	1-amp DC load breaker installed in system					33.1239	\$33
X240	Autotransformer 120/240 4kVA (included in multiple inverter systems)					33.1253	\$331

METERS & MONITORS

p. 104

Samlex model	Input voltage	Output voltage	Output amps	Item code	Price
IDC-360A-12	9-18	12.5	30	30.8755	\$329
IDC-360B-12	20-35	12.5	30	30.8756	\$329
IDC-360C-12	30-60	12.5	30	30.8757	\$329
IDC-360A-24	9-18	24	15	30.8758	\$329
IDC-360C-24	30-60	24	15	30.8760	\$329

p. 106

In bottom table, Atkinson monitors:

Description	Item code	Price
Atkinson PVWDM digital monitor	28.2205	\$126
Atkinson PVWSM shunt module	28.2207	\$130

BATTERIES

p. 115

First line of worksheet:

Step 1 Total average amp-hours per day required (line 10 from the Off-Grid Load Worksheet on p13): _____

p. 116

The three heaviest MK Battery Sealed AGM models can NOT be shipped by UPS or air: 8A31, 8A4D, and 8A8D. They can only be shipped via truck freight on pallets.

p. 127

Description	Item code	Price
QuickCote	46.0195	\$20

ELECTRICAL SUPPLIES

p. 134

Solarline 1 & 2 Array Output Cables

MC Solarline 1 & 2 male/female cables			
Cable length (ft)	Solarline 1 item code	Solarline 2 item code	Price
6	52.9107	52.9407	\$21
15	52.9111	52.9411	\$26
30	52.9115	52.9415	\$34
50	52.9116	52.9416	\$45
100	52.9118	52.9418	\$72

MC Solarline 1 & 2 Color-Coded Cables

Solarline 1 connector cable description	Item code	Price
#10 AWG white negative 100 ft.	52.9083	\$69
#10 AWG black positive 100 ft.	52.9082	\$68
#10 AWG red positive 100 ft.	52.9081	\$68

Solarline 2 locking connector cable description	Item code	Price
#10 AWG white negative 100 ft.	52.9383	\$49
#10 AWG black positive 100 ft.	52.9382	\$49
#10 AWG red positive 100 ft.	52.9381	\$49

p. 137

Bottom table:

SMA model	Input circuits	Max input fuse	Max output current	Dimensions (In)	Weight (lb.)	Item code	Price
SBCB 6	6	15 Amp	72 Amps	10 x 8 x 6	11	53.3003	\$467
SCCB 28	28	15 Amp	336 Amps	20 x 20 x 8	56	53.3005	\$1,649
SCCB 52	52	8 Amp	333 Amps	42 x 30 x 8	70	53.3009	\$3,361

p. 139

3rd line of top table:

Breaker amps	Poles	Voltage rating	Frequency rating	Width (inches)	OutBack number	MidNite Solar #	Item code	Price
20	1	120	50/60HZ AC	0.5	OBB-20-120VAC-DIN	MNEAC20	30.4418	\$19

Middle table:

Breaker amps	Poles	Voltage rating	Frequency rating	Width (inches)	OutBack number	MidNite Solar #	Generic number	Item code	Price
1	1	125	AC/DC	0.75	OBB-1-125VDC120VAC-PNL		LELK1-1	30.4350	\$25
5	1	125	AC/DC	0.75	OBB-5-125VDC120VAC-PNL		LELK1-5	30.4349	\$25
10	1	125	AC/DC	0.75	OBB-10-125VDC120VAC-PNL		LELK1-10	30.4348	\$25
15	1	125	AC/DC	0.75	OBB-15-125VDC120VAC-PNL		LELK1-15	30.4344	\$25
20	1	125	AC/DC	0.75	OBB-20-125VDC120VAC-PNL		LELK1-20	30.4347	\$25
30	1	125	AC/DC	0.75	OBB-30-125VDC120VAC-PNL		LELK1-30	30.4331	\$25
40	1	125	AC/DC	0.75	OBB-40-125VDC120VAC-PNL		LELK1-40	30.4338	\$25
50	1	125	AC/DC	0.75	OBB-50-125VDC120VAC-PNL		LELK1-50	30.4337	\$25
60	1	125	AC/DC	0.75	OBB-60-125VDC120VAC-PNL		LELK1-60	30.4335	\$25
80	1	125	DC	0.75	OBB-80-125VDC-PNL	MNEDC80		30.4333	\$25
100	1	125	DC	1	OBB-100-125VDC-PNL			30.4332	\$59
125	1	125	DC	1	OBB-125-125VDC-PNL	MNEDC125		30.4331	\$59
175	1	125	DC	1.5	OBB-175-125VDC-PNL	MNEDC175		30.4329	\$129
250	1	125	DC	1.5	OBB-250-125VDC-PNL	MNEDC250		30.4326	\$129

WATER PUMPS

p. 152

First line below is a **new item**.

Grundfos SQFlex pumps and accessories	Item code	Price
SQFlex 16 SQF-10 pump - 4"	75.1020	\$2,602
SQFlex 40 SQF-5 pump - 4"	75.1028	\$2,602

p. 155

Model number	Current (amps)	Flow rate (gpm) at 0 psi	Pressure (max psi) at 0 flow	Maximum head (feet)	Dimensions (inches)	Weight (lb)	Cable length	Item code	Price
LVM105	4.5	4	14	32	1.5 x 6.54	1.1	12 ft	75.8052	\$89
LVM107	2	2	11	20	1.5 x 5.67	0.5	3 ft	75.8054	\$68
LVM111	6	6	14	32	1.5 x 6.54	1.5	12 ft	75.8058	\$110

p. 156

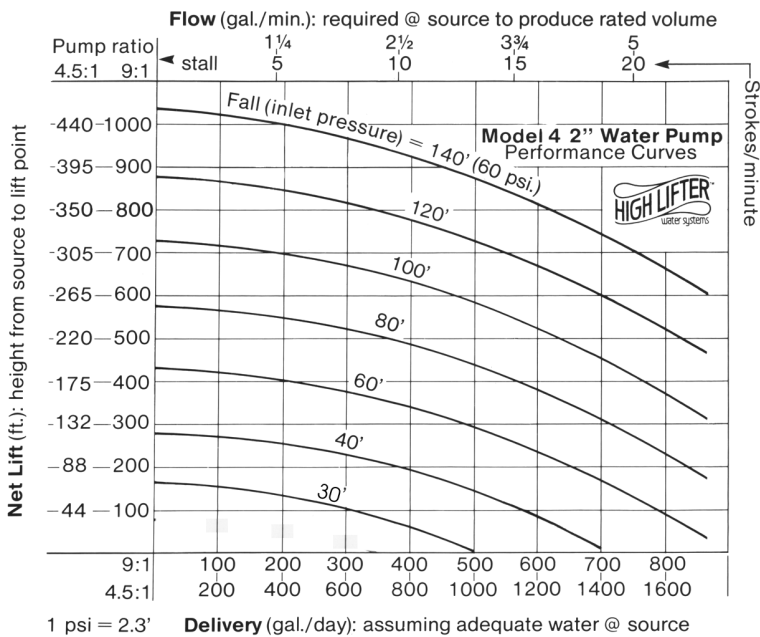
In bottom table, the first SunPumps model should be PCA-30M1D

p. 161

SHURflo part #	Description	Voltage	Max gpm	Pressure (psi)	Flow (gpm)	Current (amps)	Item code	Price
2088-573-534	Premium pump with splash-proof motor 3.6 gpm open flow, 45 psi demand switch, 1/2" MSPT ports	24VDC	3.6	10	3.17	3.10	75.5619	\$186
				30	2.63	4.10		
				40	2.34	4.50		

p. 162

This High Lifter performance curve graph has been updated.



APPLIANCES

p. 167

Second to last line on bottom table:

Item description	Dimensions H" x W" x D"	Weight lbs	Item code	Price
Options				
Storage cabinet 13" high w/2 drawers goes under RF16 - white	13 X 34 x 27.5	60	80.2544	\$427

VENTILATION

p. 170 (in top table)

Model	Nominal voltage	Dimensions H" x L" x W"	Fan diameter	Current amps	Recommended PV watts	Air flow (CFM)	Weight lbs	Item code	Price
1812HP	12	26 X 21.5 X 24	20"	4.4	85 - 130	2400	56	85.6609	\$789
1824HP	24	26 X 21.5 X 24	20"	2.9	85 - 130	2500	56	85.6626	\$829

INDEX

p. 191

ADVERTISERS

Apollo Solar.....	192
Blue Sky Energy	65
Direct Power/PowerFab...	46-47
Evergreen Solar	back cover
Fat Spaniel	105
Fronius	82-83
Global Solar.....	24
Magnum Energy	98
MidNite Solar	61
MK Battery	117
Morningstar	inside front cover
OutBack Power .	inside bk cover
SMA America.....	75
Solar Energy International...	25
SolarWorld.....	2
Southwest Windpower	52
Surrette Battery Co. Ltd.....	119
UniRac.....	38
Xantrex	89



The Only Wholesale
Distributor You'll Ever Need

800-777-6609 • www.aeesolar.com
1155 Redway Dr. • Box 339, Redway, CA 95560