

Model		Efficiency and cell type							Electrical data			
Supplier	In-house production Module name	Market introduction	BIPV	Country of origin	Nominal power	Tolerance	Module efficiency	Cell manufacturer	Cell type	Voltage MPP	Current MPP	
Lucky Power*	• LPG-196-3S(197)	-	o	-	197 W	-	13.3%	-	multi	27.1 V	7.25 A	
	• LPG-196-3S(202)	-	o	-	202 W	-	13.7%	-	multi	27.5 V	7.36 A	
	• LPG-208-3S(205)	-	o	-	205 W	-	10.9%	-	multi	29.5 V	6.97 A	
	• LPG-208-3S(211)	-	o	-	211 W	-	11.2%	-	multi	29.9 V	7.06 A	
	• LPG-208-3S(216)	-	o	-	216 W	-	11.5%	-	multi	30.2 V	7.17 A	
	• LPG-218-3S(213)	-	o	-	213 W	-	13.0%	-	multi	29.8 V	7.15 A	
	• LPG-218-3S(219)	-	o	-	219 W	-	13.4%	-	multi	30.2 V	7.25 A	
	• LPG-218-3S(224)	-	o	-	224 W	-	13.7%	-	multi	30.5 V	7.36 A	
	• LPS-100-E	-	o	-	100 W	± 5%	11.2%	-	mono	24.1 V	4.14 A	
	• LPS-110-E	-	o	-	110 W	± 5%	12.3%	-	mono	24.3 V	4.52 A	
	• LPS-120-E	-	o	-	120 W	± 5%	13.4%	-	mono	24.6 V	4.87 A	
	• LPS-130-E	-	o	-	130 W	± 5%	11.8%	-	mono	30.3 V	4.30 A	
	• LPS-140-E	-	o	-	140 W	± 5%	12.7%	-	mono	30.5 V	4.60 A	
	• LPS-150-E	-	o	-	150 W	± 5%	13.6%	-	mono	30.7 V	4.87 A	
	• LPS-196-3S(198)	-	o	-	198 W	± 5%	13.4%	-	mono	26.7 V	7.43 A	
	• LPS-196-3S(203)	-	o	-	203 W	± 5%	13.7%	-	mono	27.1 V	7.49 A	
	• LPS-196-3S(208)	-	o	-	208 W	± 5%	14.1%	-	mono	27.5 V	7.57 A	
	• LPS-218-3S(220)	-	o	-	220 W	± 5%	13.4%	-	mono	29.7 V	7.43 A	
	• LPS-218-3S(226)	-	o	-	226 W	± 5%	13.8%	-	mono	30.2 V	7.49 A	
	• LPS-218-3S(231)	-	o	-	231 W	± 5%	14.1%	-	mono	30.6 V	7.57 A	
	Luxor	• LX-130M/156-36B	2007	o	-	130 W	± 5%	13.0%	Motech	mono	18.5 V	7.06 A
		• LX-140M/156-36B	2007	o	-	140 W	± 5%	14.0%	Motech	mono	18.5 V	7.55 A
		• LX-170M/125-75L+S	2007	o	-	170 W	+4.99%	13.3%	JA Solar	mono	35.4 V	4.80 A
• LX-175M/125-75L+S		2007	o	-	175 W	+4.99%	13.7%	JA Solar	mono	35.6 V	4.92 A	
• LX-180M/125-75L+S		2007	o	-	180 W	+4.99%	14.1%	JA Solar	mono	35.8 V	5.03 A	
• LX-220P/156-60+		2009	o	-	220 W	+4.99%	13.4%	Q-Cells	multi	28.9 V	7.61 A	
• LX-225P/156-60+		2009	o	-	225 W	+4.99%	13.7%	Q-Cells	multi	29.1 V	7.74 A	
• LX-230P/156-60+		2009	o	-	230 W	+4.99%	14.0%	Q-Cells	multi	29.3 V	7.87 A	
• LX-50A+		2009	o	-	50 W	+2.99%	6.3%	-	e-Si(1)	mono	70.9 V	0.71 A
Mage Solar		o Mage Powertec 170/5MA	-	o	-	170 W	± 3%	13.3%	-	mono	35.2 V	4.83 A
	o Mage Powertec 170/5ME	-	o	-	170 W	± 3%	13.3%	-	mono	36.1 V	4.70 A	
	o Mage Powertec 170/5MG	-	o	-	170 W	± 3%	13.3%	-	mono	35.0 V	4.86 A	
	o Mage Powertec 170/6MT	-	o	-	170 W	± 3%	13.0%	-	mono	23.8 V	7.16 A	
	o Mage Powertec 175/5MA	-	o	-	175 W	± 3%	13.7%	-	mono	35.8 V	4.91 A	
	o Mage Powertec 175/5ME	-	o	-	175 W	± 3%	13.7%	-	mono	36.5 V	4.80 A	
	o Mage Powertec 175/5MG	-	o	-	175 W	± 3%	13.7%	-	mono	35.2 V	4.97 A	
	o Mage Powertec 175/6MT	-	o	-	175 W	± 3%	13.4%	-	mono	23.9 V	7.33 A	
	o Mage Powertec 180/5MA	-	o	-	180 W	± 3%	14.1%	-	mono	36.1 V	5.00 A	
	o Mage Powertec 180/5ME	-	o	-	180 W	± 3%	14.1%	-	mono	36.7 V	4.90 A	
	o Mage Powertec 180/5MG	-	o	-	180 W	± 3%	14.1%	-	mono	35.4 V	5.08 A	
	o Mage Powertec 180/6MT	-	o	-	180 W	± 3%	13.7%	-	mono	24.2 V	7.44 A	
	o Mage Powertec 185/6MT	-	o	-	185 W	± 3%	14.1%	-	mono	24.4 V	7.59 A	
	o Mage Powertec 210/6MT	-	o	-	210 W	± 3%	12.8%	-	mono	29.2 V	7.20 A	
	o Mage Powertec 210/6PL	-	o	-	210 W	± 3%	12.8%	-	multi	27.9 V	7.52 A	
	o Mage Powertec 210/6PT	-	o	-	210 W	± 3%	12.8%	-	multi	29.6 V	7.09 A	
	o Mage Powertec 220/6MT	-	o	-	220 W	± 3%	13.4%	-	mono	29.8 V	7.38 A	
	o Mage Powertec 220/6PL	-	o	-	220 W	± 3%	13.4%	-	multi	29.3 V	7.52 A	
	o Mage Powertec 220/6PT	-	o	-	220 W	± 3%	13.4%	-	multi	30.1 V	7.30 A	
	o Mage Powertec 230/6MT	-	o	-	230 W	± 3%	14.0%	-	mono	30.5 V	7.55 A	
o Mage Powertec 230/6PL	-	o	-	230 W	± 3%	14.0%	-	multi	30.6 V	7.52 A		
o Mage Powertec 230/6PT	-	o	-	230 W	± 3%	14.0%	-	multi	30.5 V	7.55 A		
MDT	o MDT-200-LM3	-	o	-	200 W	± 3%	13.3%	-	multi	27.3 V	7.30 A	
	o MDT-212-PM4	-	o	-	212 W	± 3%	12.8%	-	multi	28.4 V	7.47 A	
	o MDT-218-PM4	-	o	-	218 W	± 3%	13.1%	-	multi	29.0 V	7.53 A	
	o MDT-220-AM4	-	o	-	220 W	± 3%	13.7%	-	multi	29.4 V	7.51 A	
	o MDT-224-PM4	-	o	-	224 W	± 3%	13.5%	-	multi	29.2 V	7.67 A	
Mierreg	o MDT-230-PM4	-	o	-	230 W	± 3%	13.9%	-	multi	29.0 V	7.94 A	
	o PE 110	2004	o	div.	110 W	± 5%	12.7%	Q-Cells	multi	16.8 V	6.50 A	
	o PE 115	2004	o	div.	115 W	± 5%	13.3%	Q-Cells	multi	17.7 V	6.50 A	
	o PE 120	2004	o	div.	120 W	± 5%	13.8%	Q-Cells	multi	17.4 V	6.90 A	
	o PE 210	2007	o	div.	210 W	± 5%	12.8%	Q-Cells	multi	29.6 V	7.10 A	
	o PE 220	2007	o	div.	220 W	± 5%	13.4%	Q-Cells	multi	30.0 V	7.33 A	
	o PE 230	2007	o	div.	230 W	± 5%	14.0%	Q-Cells	multi	30.3 V	7.59 A	
	o PM 160	2005	o	div.	160 W	± 5%	12.6%	-	mono	34.7 V	4.60 A	
	o PM 170	2005	o	div.	170 W	± 5%	13.4%	-	mono	36.2 V	4.70 A	
	o PM 180	2005	o	div.	180 W	± 5%	14.0%	-	mono	37.0 V	4.86 A	
Millennium	o MIL-PV-155W-M02	2004	o	CN	155 W	± 5%	12.1%	div.	mono	33.3 V	4.66 A	
	o MIL-PV-160W-M01	2004	o	CN	160 W	± 5%	12.5%	div.	multi	35.3 V	4.51 A	
	o MIL-PV-160W-M02	2004	o	CN	160 W	± 5%	12.5%	div.	mono	33.8 V	4.74 A	
	o MIL-PV-165W-M01	2004	o	CN	165 W	± 5%	12.9%	div.	multi	35.5 V	4.65 A	
	o MIL-PV-165W-M02	2004	o	CN	165 W	± 5%	12.9%	div.	mono	34.3 V	4.81 A	
	o MIL-PV-170W-M01	2004	o	CN	170 W	± 5%	13.3%	div.	multi	35.5 V	4.78 A	
	o MIL-PV-170W-M02	2004	o	CN	170 W	± 5%	13.3%	div.	mono	34.8 V	4.89 A	
	o MIL-PV-175W-M01	2004	o	CN	175 W	± 5%	13.7%	div.	multi	35.9 V	4.90 A	
	o MIL-PV-175W-M02	2004	o	CN	175 W	± 5%	13.7%	div.	mono	35.3 V	4.96 A	
	o MIL-PV-180W-M01	2005	o	CN	180 W	± 5%	14.1%	div.	multi	35.8 V	5.03 A	
	o MIL-PV-180W-M02	2005	o	CN	180 W	± 5%	14.1%	div.	mono	35.8 V	5.03 A	
	o MIL-PV-185W-M02	2005	o	CN	185 W	± 5%	14.5%	div.	mono	36.3 V	5.10 A	
	o MIL-PV-195W-M03	2008	o	CN	195 W	± 5%	15.3%	div.	mono	36.1 V	5.57 A	
	o MIL-PV-200W-M01	2008	o	CN	200 W	± 5%	13.4%	div.	multi	26.9 V	7.44 A	

Model		Efficiency and cell type							Electrical data		
Supplier	In-house production Module name	Market introduction	BIPV	Country of origin	Nominal power	Tolerance	Module efficiency	Cell manufacturer	Cell type	Voltage MPP	Current MPP
Millennium	MIL-PV-200W-M02	2008	○	CN	200 W	± 5%	13.4%	div.	mono	26.7 V	7.49 A
	MIL-PV-205W-M01	2008	○	CN	205 W	± 5%	13.7%	div.	multi	27.0 V	7.60 A
	MIL-PV-205W-M02	2008	○	CN	205 W	± 5%	13.7%	div.	mono	26.8 V	7.65 A
	MIL-PV-210W-M01	2008	○	CN	210 W	± 5%	14.1%	div.	multi	27.1 V	7.75 A
	MIL-PV-210W-M02	2008	○	CN	210 W	± 5%	14.1%	div.	mono	26.9 V	7.81 A
	MIL-PV-210W-M03	2008	○	CN	210 W	± 5%	16.4%	div.	mono	37.4 V	5.62 A
	MIL-PV-215W-M02	2008	○	CN	215 W	± 5%	13.0%	div.	mono	29.9 V	7.20 A
	MIL-PV-220W-M02	2008	○	CN	220 W	± 5%	13.3%	div.	mono	30.0 V	7.34 A
	MIL-PV-225W-M02	2008	○	CN	225 W	± 5%	13.6%	div.	mono	30.1 V	7.48 A
	MIL-PV-230W-M02	2008	○	CN	230 W	± 5%	13.9%	div.	mono	30.2 V	7.62 A
	MIL-PV-235W-M02	2008	○	CN	235 W	± 5%	14.2%	div.	mono	30.3 V	7.76 A
	MIL-PV-240W-M02	2008	○	CN	235 W	± 5%	14.2%	div.	mono	30.3 V	7.92 A
	MIL-PVT-215W-M03	2008	○	IL	215 W	± 5%	16.8%	div.	mono	38.2 V	5.63 A
	MIL-PVT-300W-M01	1992	○	IL	300 W	± 5%	12.7%	div.	multi	36.5 V	9.00 A
	MIL-PVT-320W-M02	1992	○	IL	320 W	± 5%	12.9%	div.	mono	36.7 V	9.16 A
	MIL-PVT-340W-M02	1992	○	IL	340 W	± 5%	13.7%	div.	mono	37.0 V	9.40 A
	Mitsubishi Electric	PV-AD175MF5	2007	○	JP	175 W	± 3%	12.7%	Mitsubishi Electric	multi	23.9 V
PV-AD180MF5		2007	○	JP	180 W	± 3%	13.0%	Mitsubishi Electric	multi	24.2 V	7.45 A
PV-AD185MF5		2007	○	JP	185 W	± 3%	13.4%	Mitsubishi Electric	multi	24.4 V	7.58 A
PV-AD190MF5		2007	○	JP	190 W	± 3%	13.7%	Mitsubishi Electric	multi	24.7 V	7.71 A
PV-AE115MF5N		2007	○	JP	115 W	+10/-5%	11.4%	Mitsubishi Electric	multi	17.1 V	6.75 A
PV-AE120MF5N		2007	○	JP	120 W	+10/-5%	11.9%	Mitsubishi Electric	multi	17.2 V	6.99 A
PV-AE125MF5N		2007	○	JP	125 W	+10/-5%	12.4%	Mitsubishi Electric	multi	17.3 V	7.23 A
PV-AE130MF5N		2007	○	JP	130 W	+10/-5%	12.9%	Mitsubishi Electric	multi	17.4 V	7.47 A
PV-EE115MF5F		2009	○	JP	115 W	+10/-5%	11.4%	Mitsubishi Electric	multi	17.1 V	6.75 A
PV-EE120MF5F		2009	○	JP	120 W	+10/-5%	11.9%	Mitsubishi Electric	multi	17.2 V	6.99 A
PV-EE125MF5F		2009	○	JP	125 W	+10/-5%	12.4%	Mitsubishi Electric	multi	17.3 V	7.23 A
PV-EE130MF5F		2009	○	JP	130 W	+10/-5%	12.9%	Mitsubishi Electric	multi	17.4 V	7.47 A
PV-TD175MF5		2007	○	JP	175 W	± 3%	12.7%	Mitsubishi Electric	multi	23.9 V	7.32 A
PV-TD180MF5		2007	○	JP	180 W	± 3%	13.0%	Mitsubishi Electric	multi	24.2 V	7.45 A
PV-TD185MF5		2007	○	JP	185 W	± 3%	13.4%	Mitsubishi Electric	multi	24.4 V	7.58 A
PV-TD190MF5		2007	○	JP	190 W	± 3%	13.7%	Mitsubishi Electric	multi	24.7 V	7.71 A
PV-TE115MF5N		2007	○	JP	115 W	+10/-5%	11.4%	Mitsubishi Electric	multi	17.1 V	6.75 A
PV-TE120MF5N		2007	○	JP	120 W	+10/-5%	11.9%	Mitsubishi Electric	multi	17.2 V	6.99 A
PV-TE125MF5N		2007	○	JP	125 W	+10/-5%	12.4%	Mitsubishi Electric	multi	17.3 V	7.23 A
PV-TE130MF5N		2007	○	JP	130 W	+10/-5%	12.9%	Mitsubishi Electric	multi	17.4 V	7.47 A
PV-UD175MF5		2007	○	JP	175 W	± 3%	12.7%	Mitsubishi Electric	multi	23.9 V	7.32 A
PV-UD180MF5		2007	○	JP	180 W	± 3%	13.0%	Mitsubishi Electric	multi	24.2 V	7.45 A
PV-UD185MF5		2007	○	JP	185 W	± 3%	13.4%	Mitsubishi Electric	multi	24.4 V	7.58 A
PV-UD190MF5		2007	○	JP	190 W	± 3%	13.7%	Mitsubishi Electric	multi	24.7 V	7.71 A
PV-UE115MF5N		2007	○	JP	115 W	+10/-5%	11.4%	Mitsubishi Electric	multi	17.1 V	6.75 A
PV-UE120MF5N		2007	○	JP	120 W	+10/-5%	11.9%	Mitsubishi Electric	multi	17.2 V	6.99 A
PV-UE125MF5N		2007	○	JP	125 W	+10/-5%	12.4%	Mitsubishi Electric	multi	17.3 V	7.23 A
PV-UE130MF5N	2007	○	JP	130 W	+10/-5%	12.9%	Mitsubishi Electric	multi	17.4 V	7.47 A	
Mitsubishi Heavy	MA 100 T2	2005	○	JP	100 W	± 5%	6.3%	Mitsubishi Heavy	a-Si(1)	108.0 V	0.93 A
	MA 100 T2	2005	○	JP	100 W	± 5%	6.3%	Mitsubishi Heavy	a-Si(1)	108.0 V	0.93 A
Moser Baer*	MBPV 130	-	○	-	130 W	+2.5%	11.8%	-	mono	30.1 V	4.40 A
	MBPV 135	-	○	-	135 W	+2.5%	12.3%	-	mono	30.2 V	4.50 A
	MBPV 140	-	○	-	140 W	+2.5%	12.7%	-	mono	30.3 V	4.65 A
	MBPV 160	-	○	-	160 W	+2.5%	12.2%	-	mono	36.0 V	4.45 A
	MBPV 165	-	○	-	165 W	+2.5%	12.6%	-	mono	36.2 V	4.61 A
	MBPV 170	-	○	-	170 W	+2.5%	13.0%	-	mono	36.3 V	4.71 A
	MBPV 200	-	○	-	200 W	+2.5%	12.1%	-	multi	28.6 V	7.15 A
	MBPV 210	-	○	-	210 W	+2.5%	12.7%	-	multi	29.0 V	7.32 A
	MBPV 220	-	○	-	220 W	+2.5%	13.3%	-	multi	30.0 V	7.34 A
	NP 125 GK	2005	○	SE	125 W	± 5%	12.6%	Q-Cells	multi	17.1 V	7.30 A
Naps	NP 130 GK	2005	○	SE	130 W	± 3%	13.1%	Q-Cells	multi	17.3 V	7.50 A
	NP 190 GK	2007	○	SE	190 W	± 5%	13.1%	Q-Cells	multi	25.8 V	7.36 A
	NP 195 GK	2007	○	SE	195 W	± 3%	13.4%	Q-Cells	multi	26.0 V	7.50 A
	NP 200 GK	2007	○	SE	200 W	± 3%	13.8%	Q-Cells	multi	26.2 V	7.63 A
	NP 200 GK	2007	○	SE	200 W	± 3%	13.8%	Q-Cells	multi	26.2 V	7.63 A
Ningbo Dragon Solar*	DSM160-24	-	○	-	160 W	-	12.5%	-	mono	36.0 V	4.45 A
	DSM165-24	-	○	-	165 W	-	12.9%	-	mono	36.0 V	4.58 A
	DSM170-24	-	○	-	170 W	-	13.3%	-	mono	36.0 V	4.72 A
	DSM175-24	-	○	-	175 W	-	13.7%	-	mono	36.2 V	4.84 A
	DSM180-24	-	○	-	180 W	-	14.1%	-	mono	36.4 V	4.95 A
	DSP150-24	-	○	-	150 W	-	11.7%	-	multi	34.4 V	4.36 A
	DSP155-24	-	○	-	155 W	-	12.1%	-	multi	34.6 V	4.48 A
	DSP160-24	-	○	-	160 W	-	12.5%	-	multi	36.0 V	4.45 A
	DSP165-24	-	○	-	165 W	-	12.9%	-	multi	36.0 V	4.58 A
	DSP170-24	-	○	-	170 W	-	13.3%	-	multi	36.0 V	4.72 A
	DSP175-24	-	○	-	175 W	-	13.7%	-	multi	36.2 V	4.84 A
	DSP200-36	-	○	-	200 W	-	14.1%	-	multi	27.2 V	7.35 A
	DSP210-36	-	○	-	210 W	-	14.8%	-	multi	27.3 V	7.70 A
	DSP220-36	-	○	-	220 W	-	15.5%	-	multi	27.4 V	8.03 A
	DSP220-36	-	○	-	220 W	-	15.5%	-	multi	27.4 V	8.03 A
Ningbo Qixin Solar*	SL130CE-18P 110	-	○	-	110 W	± 5%	11.1%	-	multi	17.6 V	6.25 A
	SL130CE-18P 120	-	○	-	120 W	± 5%	12.1%	-	multi	17.6 V	6.82 A
	SL130CE-18P 130	-	○	-	130 W	± 5%	13.1%	-	multi	17.6 V	7.40 A
	SL135CE-27M 115	-	○	-	115 W	± 5%	11.9%	-	mono	26.4 V	4.36 A
	SL135CE-27M 125	-	○	-	125 W	± 5%	12.9%	-	mono	26.4 V	4.74 A
	SL135CE-27M 135	-	○	-	135 W	± 5%	13.9%	-	mono	26.4 V	5.12 A
	SL180CE-27P 160	-	○	-	160 W	± 5%	11.0%	-	multi	26.4 V	6.07 A
	SL180CE-27P 160	-	○	-	160 W	± 5%	11.0%	-	multi	26.4 V	6.07 A