

Western Power Approved Inverters

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Approved inverters

These tables list those inverters that have been assessed and approved by Western Power as meeting the criteria which makes them suitable for connection to the distribution network within the South West Interconnected System (grid).

Listed inverters have been grouped into tables for Inverter Energy Systems (IES):

1. 3 kW or less;
2. Larger than 3 kW;
3. Incorporating energy (battery) storage facilities

Inverters listed in tables 1 and 2 have been assessed as meeting the criteria for grid connection without the capability to incorporate battery storage. Therefore inverters in tables 1 and 2 shall not be connected to Western Power network in configurations that include battery storage facilities.

Inverters listed in table 3 have been assessed as meeting the criteria for grid connection with the capability to incorporate battery storage. Battery capable inverters require a manufacturer declaration indicating that energy injection from the battery to the network can be prevented and that the inverter settings that enable this restriction can be secured from being changed.

The inverter and protection equipment must be certified by a recognised testing laboratory and approved prior to being connected to the distribution network. It is the manufacturer's or their agent's responsibility to formally seek approval and to ensure that the inverter's certification remains current. Inverters that do not have both the required independent certification and Western Power's approval must not be, or remain, connected to the grid.

For further information on the inverter certification process please refer to the Table Notes or Section 15 of the [Western Australian Distribution Connections Manual](#) located on Western Power's public web site.

Connection applications

In addition to the inverter certification requirement all proposed customer Inverter Energy System installations and connections to the grid require the following:

- Submission of a connection application to Western Power, which must nominate the approved inverter to be installed.
- Western Power evaluation and approval prior to installation.

Western Power application, evaluation and approval process considers the effect of an IES system on the local grid power quality which in some instances, especially rural areas, may result in rejection or alternatively a request for a revised application proposing inverter/s of reduced capacity.

Please refer to the Tables Notes for additional information.

Table 1 Inverters 3 kW or less suitable for grid connection.

Brand	Model	Phases	Rating: Maximum Power(kW) Refer Notes 6&7
ABLEREX	Enersolis ES 3300	Single	3.0
AERO-SHARP	HR-INV-X01-006	Single	0.66
	HR-INV-X01-010	Single	1.1
	HR-INV-X01-015	Single	1.65
	HR-INV-X01-020	Single	2.2
	AFORE	HNS 1000TL	Single
	HNS1000TL-1	Single	1.0
	HNS1500TL	Single	1.7
	HNS1500TL-1	Single	1.5
	HNS2000TL	Single	2.2
	HNS2000TL-1	Single	2.0
	HNS2500TL	Single	2.8
	HNS2500TL-1	Single	2.5
	HNS3000TL-1	Single	3.0
	HNS3000TL	Single	3.0
APS	YC 200-EU	Single	0.22
	YC 250 A	Single	0.25
	YC 250 I	Single	0.25
	YC 500 A	Single	0.50
	YC 500 I	Single	0.50
AUXIN SOLAR LLC	AXN-PV1500A	Single	1.65
	AXN-PV1500AL	Single	1.65
	AXN-PV2000A	Single	2.2
	AXN-PV2000AL	Single	2.2
BLUELINE SOLAR	EV1500	Single	1.65
	EV2000	Single	2.0
	MI3000	Single	3.0
	P250LV-230-AU	Single	0.238
	BOSCH	BPT-S 3	Single
CLENERGY	SPH15	Single	1.5
	SPH20	Single	2.2
	SPH30	Single	3.0
CMS	CMS 1500	Single	1.65
	CMS 1500SS	Single	1.6
	CMS2000-1	Single	2.0
	CMS 2000	Single	2.2
	CMS 2800	Single	3.0
CONERGY	WR1700	Single	1.5
	WR2300	Single	2.0
	WR3300	Single	2.65
	ETN1000	Single	1.0
	ETN2000	Single	2.0
	Conergy IPG 3 S	Single	3.0
DASS TECH	Soleaf DSP-123K2(A)	Single	3.0
DELTA	Solivia 2.5APG3	Single	2.49

	Solivia 3.0 APG3	Single	2.99(3.17)
	RPI-H3A	Single	3.0
	DDP-260AB-1	Single	0.26
	DDP-260AB-2	Single	0.26
DIEHL AKO STIFTUNG & CO	Platinum 2100S	Single	1.9
	Platinum 2800S	Single	2.6
	Platinum 3100S	Single	2.8
EATON	ETN1000	Single	1.0
	ETN2000	Single	2.0
EFFEKTA	ES 2200	Single	2.0
	ES 3300	Single	3.0
ELTEK VALERE	Theia 2.0 HE-t	Single	2.0
	Theia 2.9 HE-t	Single	2.9
ENPHASE	M215-60-230-S22	Single	0.215
	M250-60-230-S22	Single	0.258
	M215-60-230-S22-E	Single	0.225
ENASOLAR	1.5kWGT-AUNZ	Single	1.6
	2kWGT-AU	Single	2.1
ENECSYS	SMI-240-60	Single	0.225
	220-60-MP	Single	0.220
	240-60-MP	Single	0.240
	260-60-MP	Single	0.260
	280-60-MP	Single	0.280
	300-60-MP	Single	0.300
	220-60-MM	Single	0.220
	240-60-MM	Single	0.240
	260-60-MM	Single	0.260
	280-60-MM	Single	0.280
	300-60-MM	Single	0.300
	220-60-MM-S	Single	0.220
	240-60-MM-S	Single	0.240
	260-60-MM-S	Single	0.260
	280-60-MM-S	Single	0.280
	300-60-MM-S	Single	0.300
EVER SOLAR (ZEVERSOLAR)	TL1500AS	Single	1.65
	TL2000AS	Single	2.0
	Eversol HF1500	Single	1.65
	Eversol HF2000	Single	2.0
	Eversol TL 3000	Single	3.0
	Evershine TL3000-10	Single	3.0
	Evershine TL3000-11	Single	3.0
	Eversol TL 1500-20	Single	1.65
	Eversol TL 2000-20	Single	2.0
	Eversol TL 2500-20	Single	2.5
	Eversol TL 3000-20	Single	3.0
FRONIUS	Galvo 1.5-1	Single	1.5
	Galvo 2.0-1	Single	2.0
	Galvo 2.5-1	Single	2.5
	Galvo 3.0-1	Single	3.0
	IG15	Single	1.5
	IG20	Single	2.0
	IG30	Single	2.65
	IG Plus 25V-1	Single	2.6

	IG Plus 30V-1	Single	3.0
	IG TL 3.0	Single	3.0
	Symo 3.0-3S	Three	3.0
	Symo 3.0-3M	Three	3.0
GEOPROTEK	GS 1500	Single	1.65
	GS 2000	Single	2.2
GINLONG	EKO 1500	Single	1.5
	EKO 2000	Single	2.2
	EKO 3000-DB	Single	3.0
	EKO-1.5K-2G	Single	1.7
	EKO-1K-2G	Single	1.1
	EKO-2.5K-2G	Single	2.8
	EKO-2K-2G	Single	2.2
	GCI – 2K – W	Single	2.2
	GCI-3K-DB	Single	3.0
	GCI-3K-W	Single	3.0
	GC1-2K	Single	2.2
	GC1-1.5K	Single	1.5
	GCI – 1.5K – W	Single	1.5
	GCI-1.5K-2G	Single	1.7
	GCI-1.5K-2G-H	Single	1.7
	GCI-1.5K-2G-W	Single	1.7
	GCI-1K-2G	Single	1.1
	GCI-1K-2G-H	Single	1.1
	GCI-1K-2G-W	Single	1.1
	GCI-2.5K-2G	Single	2.8
	GCI-2.5K-2G-H	Single	2.8
	GCI-2.5K-2G-W	Single	2.8
	GCI-2K-2G	Single	2.2
	GCI-2K-2G-H	Single	2.2
	GCI-2K-2G-W	Single	2.2
	SOLAPOWA-1.5K-2G	Single	1.7
	SOLAPOWA-1K-2G	Single	1.1
	SOLAPOWA-2.5K-2G	Single	2.8
	SOLAPOWA-2K-2G	Single	2.2
	Solis 1500	Single	1.5
	Solis 2000	Single	2.2
	Solis 3000-DB	Single	3.0
	SOLIS-1.5K-2G	Single	1.7
	SOLIS-1K-2G	Single	1.1
	SOLIS-2.5K-2G	Single	2.8
	SOLIS-2K-2G	Single	2.2
GOODWE	GW1500-SS	Single	1.65
	GW2000-SS	Single	2.0
	GW3000-SS	Single	3.0
	GW1000-NS	Single	1.0
	GW1500-NS	Single	1.5
	GW2000-NS	Single	2.0
	GW2500-NS	Single	2.5
	GW3000-NS	Single	3.0
GREEN STAR	GS 250 - A	Single	0.25
	GS 500 - A	Single	0.50
	GS 250 - I	Single	0.25

	GS 500 - I	Single	0.50
GROWATT	Growatt 2000 HF	Single	2.0
	Growatt 2500 HF	Single	2.5
	Growatt 3000 HF	Single	3.0
	Growatt 2500 MTL	Single	2.5
	Growatt 3000 MTL	Single	3.0
	Sungold 1500	Single	1.65
	Sungold 2000	Single	2.2
	Sungold 3000	Single	3.0
HOME ENERGY INTERNATIONAL	V200 Wind Power Inverter/HE INV 2500W	Single	2.5
HOSOLA	Hosola Smart 1000TL	Single	1
	Hosola Smart 1600TL	Single	1.6
	Hosola Smart 2200TL	Single	2.2
	Hosola Smart 2500TL	Single	2.5
	Hosola Smart 3000TL	Single	3.0
	Hosola Bright 2000MTL	Single	2.0
	Hosola Bright 2500MTL	Single	2.5
	Hosola Bright 3000MTL	Single	3.0
i-ENERGY	GT 260	Single	0.23
INFLUX GREEN	IGSI 1500 SJ	Single	1.5
	IGSI 2000 SJ	Single	2.0
	IGSI 3000 SJ	Single	3.0
	IGSM-220	Single	0.20
	IGSM-270	Single	0.25
	IGSM-300	Single	0.27
INVOLAR	MAC250A-230-AU	Single	0.235
INVT	iMars BG1K5TL	Single	1.5
	iMars BG2K2TL	Single	2.2
	iMars BG3KTL	Single	3.0
INGECON	INGECON SUN 2.5TL	Single	2.5
	INGECON SUN 3TL	Single	2.8
JFY	JSI-1500TL	Single	1.5
	JSI-2000TL	Single	2.0
	JSI-2500TL	Single	2.49
	JSI-3000TL	Single	3.0
	Suntwins3300TL	Single	3.0 (3.3)
JIANGSU SOLAR POWER	SP 1500 TL-S	Single	1.5
	SP 2000 TL-S	Single	2.0
	SP 3000 TL-S	Single	3.0
KSTAR	KSG-1.5-SM	Single	1.65
	KSG-2.0-SM	Single	2.2
	KSG-3K-DM	Single	3.0
KACO	Powador 1501XI	Single	1.65
	Powador 2002	Single	1.65
	Powador 3002	Single	2.5
	Powador 3200	Single	2.6
KLNE	Sunteams 1500	Single	1.65
	Sunteams 2000	Single	2.2
	Sunteams 2800	Single	3.0
	Sunteams 3000	Single	2.8
	Solartec 1500	Single	1.65
	Solartec 2000	Single	2.2

	Solartec 2500	Single	2.75
	Solartec 3000	Single	3.0
	Solartec 1500-AU,	Single	1.65
	Solartec 2000-AU	Single	2.2
	Solartec 2500-AU	Single	2.75
	Solartec D 2500-AU	Single	2.5
	Solartec D 3000-AU	Single	3.0
LADDER TECHNOLOGIES	LT-SWEA GTI-250	Single	0.26
LATRONICS	PVE-1200	Single	1.25
	PVE-2500	Single	2.5
MACSOLAR	Macsol-TL1.5K	Single	1.65
	Macsol-TL2K	Single	2.2
	Macsol-TL3K	Single	3.0
MACSOLAR	MCS2-TL2K	Single	2.2
MASTERVOLT	XS 2000	Single	1.6
	XS 2000 (SW)	Single	1.6
	XS 3200	Single	2.6
	XS 3200 (SW)	Single	2.6
MOTECH (ZEVERSOLAR)	PVMate 2500-AU	Single	2.8
OELMAIER	PAC2	Single	2.2
	PAC2S	Single	2.2
OMNIK	Omniksol 1.5k-TL	Single	1.65
	Omniksol 2.0k-TL	Single	2.2
	Omniksol-M248	Single	0.248
	Omniksol-1k-TL2	Single	1.1
	Omniksol-1.5k-TL2	Single	1.65
	Omniksol-2k-TL2	Single	2.2
	Omniksol-2.5k-TL2-S	Single	2.75
	Omniksol-3k-TL2-S	Single	3.0
OPTI_SOLAR	GT 1500	Single	1.65
	GT 2000	Single	2.2
POWER MASTER	PM-2000GT	Single	2.2
ABB / POWER-ONE	PV1-2000-AU	Single	2.0
	PVI-2000-OUTD-AU	Single	2.0
	PVI-3.0-OUTD-AU	Single	3.0
	PVI-3.0-OUTD-S-AU	Single	3.0
	PVI-3.0 -TL-OUTD	Single	3.0
	PVI-3.0 -TL-OUTD -S	Single	3.0
	PVI-3.0-TL-OUTD - W	Single	3.0
	UNO-2.0-I-OUTD	Single	2.0
	UNO-2.0-I-OUTD-S	Single	2.0
	UNO-2.0-I-OUTD-W	Single	2.0
	UNO-2.5-I-OUTD	Single	2.5
	UNO-2.5-I-OUTD-S	Single	2.5
	UNO-2.5-I-OUTD-W	Single	2.5
	Micro-0.25-I-OUTD-230	Single	0.25
	Micro-0.3-I-OUTD-230	Single	0.30
POWER ROUTER (NEDAP)	PR30S	Single	3.0
RAGU	RGS 1K5GTL	Single	1.5
	RGS 2KGTL	Single	2.0
	RGS 3KGTL	Single	3.0
RENESOLA	REPLUS-250	Single	0.25

	Replus 3000MTLA	Single	3.0
	Replus-300-AU	Single	0.255
REIN SOLAR	RS-1500TL	Single	1.65
	RS-2000TL	Single	2.2
REWATT	CR-1500TL	Single	1.65
	CR-2000 TL	Single	2.0
SAMIL POWER / SOLAR RIVER	SolarRiver 1100TL	Single	1.0
	SolarRiver 1600TL	Single	1.5
	SR1K5TLA1	Single	1.65
	SR2K2TLA1	Single	2.2
	SR2K8TLA1	Single	2.8
	Solar River 1100 TL	Single	1.0
	Solar River 1600 TL	Single	1.5
	Solar River 1700 TL	Single	1.65
	Solar River 2300 TL	Single	2.2
	Solar River 3000 TL	Single	2.8
SCHNEIDER ELECTRIC	Conext RL 3000E	Single	3.0
	Conext RL 3000E-S	Single	3.0
SEA	SEA 3000 SS	Single	3.0
SEA ORION	SPG-360-2KO	Single	2.2
	SPG-360-2KO-1	Single	2.2
SHARP	JH-1600E	Single	1.6
SMA	SB 1100	Single	1.1
	SB 1200	Single	1.2
	SB 1700	Single	1.7
	SB 2500	Single	2.5
	SB 3000	Single	3.0
	SB 1600TL-10	Single	1.6
	SB 2100TL	Single	2.1
	SB 3000TL-20	Single	3.0
	SB 3000 TL-21	Single	3.0
	SB 2500 TLST-21	Single	2.5
	SB 3000 TLST-21	Single	3.0
	SB 2000HF-30	Single	2.0
	SB 2500HF-30	Single	2.5
	SB 3000HF-30	Single	3.0
	WB 1100LV	Single	1.1
	SB240-10	Single	0.23
SOFARSOLAR	SOFAR 3000TL	Single	2.8
	SOFAR 2700TL	Single	2.5
	SOFAR 2200TL	Single	2
	SOFAR 1600TL	Single	1.5
	SOFAR 1100TL	Single	1
	SOFAR 3000TLM	Single	3
SOLARBRIDGE	P250LV-230-AU-*****	Single	0.238
	P250HV-230-AU-*****	Single	0.238
SOLAREEDGE	SE 3000	Single	3.0
	SE 2200	Single	2.2
SOLAR KING	SLK 1500 /AU/SD	Single	1.65
	SLK 2000/AU/SD	Single	2.2
	SLK 1500	Single	1.65
	SLK 2000	Single	2.2
SOLAR LORD	SL 1500	Single	1.65

	SL 2000	Single	2.2
	SL 2800	Single	3.0
	G 1500	Single	1.65
	G 2000	Single	2.0
	G 3000	Single	3.0
SOLARMAX	SolarMax 2000S	Single	1.98
	SolarMax 3000S	Single	2.75
	2000P	Single	2.0
	3000P	Single	3.0
SOLATRA	SLT-2100TL	Single	2.1
SOLAX	SL-TL 1500	Single	1.65
	SL-TL2200	Single	2.2
	SL-TL2800	Single	2.8
	SL-TL3000	Single	3.0
SOLUTRONIC AG	SOLPLUS 25	Single	2.8
SUNGROW	SG1K5TL	Single	1.5
	SG2K5TL	Single	2.5
	SG1K5TL-31	Single	1.5
	SG2K5TL-31	Single	2.5
	SG3KTL-31	Single	3.0
	SG3KTL-M	Single	3.0
	SG2K5TL-S	Single	2.49
SUNNA	Sunna 1500TL	Single	1.5
	Sunna 2000TL	Single	2.0
	Sunna 3000TL	Single	3.0
SUNNY ROO	SR 2000TL	Single	2.0
	SR 2000TLI	Single	2.2
	SR 3000TL	Single	3.0
SUNONO (SAJ)	Sunono -TL 1.5	Single	1.65
	Sunono -TL 2	Single	2.0
	Sunono -TL 3	Single	3.0
SUNPOWER	SPR-3000M-TL-1	Single	3.0
SUNTELLITE	ZDNY 1500	Single	1.65
	ZDNY 2200	Single	2.2
	ZDNY 2800	Single	2.8
	ZDNY 1500B	Single	1.5
	ZDNY 2200B	Single	2.6
	ZDNY 2800B	Single	2.8
	SH -TL 1500	Single	1.65
	SH -TL 1500S	Single	1.65
	SH -TL 2200	Single	2.2
	SH -TL 2200S	Single	2.2
	SH -TL 2800	Single	2.8
	SH -TL 2800S	Single	2.8
	SH-TL 3300	Single	3.0 (3.3)
	SH -TL 3300S	Single	3.0 (3.3)
	SH -TL 3300T	Single	3.0 (3.3)
	SH -TL 3300 TS	Single	3.0 (3.3)
	SL -TL 1500	Single	1.65
	SL -TL 2200	Single	2.2
SUNTELLITE	SL- TL 2500	Single	2.5
	SL-TL 2500S	Single	2.5
	SL -TL 2800	Single	2.8

	SL-TL 3300	Single	3.0 (3.3)
	SL-TL 3300S	Single	3.0 (3.3)
	SL-TL 3300T	Single	3.0 (3.3)
	SL-TL 3300TS	Single	3.0 (3.3)
	SN -TL 1500	Single	1.65
	SN -TL 1500S	Single	1.65
	SN -TL 2200	Single	2.2
	SN -TL 2200S	Single	2.2
	SN -TL 2800	Single	2.8
	SN -TL 2800S	Single	2.8
	SN -TL 3300	Single	3.0 (3.3)
	SN -TL 3300S	Single	3.0 (3.3)
	SN -TL 3300T	Single	3.0 (3.3)
	SN -TL 3300TS	Single	3.0 (3.3)
SUNWAYS	AT 2700	Single	2.7
	AT 3000	Single	3.0
	NT 2500	Single	2.5
	NT 3000	Single	3.0
TBEA	TBEA-GC-3KTL	Single	3.0 (3.3)
TRANENERGY	PVI 1800 TL	Single	1.65
	PVI 2300TL	Single	2.0
THINK POWER	T1500TL	Single	0.15
	T2200TL	Single	0.22
	T3000TL	Single	0.30
	S3600TL	Single	0.33
	S4400TL	Single	0.40
	S5000TL	Single	0.46
UNIVPO	UNIV-M248	Single	0.248
UREENERGY	URE1KTL	Single	1.1
	URE 1.5kTL	Single	1.65
	URE2kTL	Single	2.2
	URE2.5kTL-S	Single	2.75
	URE3kTL-S	Single	3
WOLONG	WL-1.5KS	Single	1.65
	WL-2KS	Single	2.2
	WL-3KSS	Single	3.0
XANTREX	GT2.8-AU-QC-230	Single	2.8
ZEUS APPOLLO	ZA1SL - TL 1500	Single	1.65
	ZA1SL - TL 2200	Single	2.2
	ZA1SL - TL 2500	Single	2.5
	ZA1SL - TL 2800	Single	2.8
	ZA1SL - TL 3000	Single	3.0
	ZA1SL-TL3300	Single	3.3
	ZA1SL-TL3300T	Single	3.3
	Z201K5	Single	1.5
	Z20I2K	Single	2.0
	Z20I3K	Single	3.0

Table 2 Inverters larger than 3 kW suitable for grid connection. (Refer Note 1)

Brand	Model	Phases	Rating: Maximum Power(kW) Refer Notes 6&7
ABB	PVS300-TL 3300W-2	Single	3.3
	PVS300-TL 4000W-2	Single	4.0
	PVS300-TL 4600W-2	Single	4.6
	PVS300-TL 6000W-2	Single	6.0
	PVS300-TL 8000W-2	Single	8.0
ABLEREX	Enersolis ES 4200	Single	4.0
	Enersolis ES 5000	Single	5.0
AERO-SHARP	HR-INV-X01-030	Single	3.08
AFORE	HNS 3000TL	Single	3.2
	HNS 3600TL	Single	3.8
	HNS3600TL-1	Single	3.6
	HNS4000TL	Single	4.3
	HNS4000TL-1	Single	4.0
	HNS4500TL	Single	4.8
	HNS5000TL	Single	5.0
	HNS5000TL-1	Single	5.0
	HNS5500TL	Single	6.0
	HNS5500TL-1	Single	5.5
	HNS6000TL	Single	6.5
	HNS6000TL-1	Single	6.0
	BNT010KTL	Three	10.0
	BNT012KTL	Three	12.0
	BNT015KTL	Three	15.0
BNT017KTL	Three	17.0	
BNT020KTL	Three	20.0	
AUXIN SOLAR	AXN-PV3000A	Single	3.3
	AXN-PV3000AL	Single	3.3
	AXN-PV4000A	Single	4.4
	AXN-PV4000AL	Single	4.4
BLUELINE SOLAR	EV3200	Single	3.08
	EV4600	Single	4.4
	EV5400	Single	5.0
	MI4000	Single	4.0
	MI5000	Single	5.0
BOSCH	BPT-S 3.68	Single	3.68
CLENERGY	SPH40	Single	4.4
	SPH50	Single	5.0
	SPH60	Single	6.0
CLIPSAL (Schneider Electric)	Conext TL 15000E	Three	15.0
	Conext TL 20000E	Three	20.0
CMS	CMS-3000SS	Single	3.2
	CMS 4000	Single	4.4
	CMS 5000	Single	5.0
	CMS10000	Three	11.0
CONERGY	WR4600	Single	4.1
	WR5900	Single	5.0
	ETN10K	Three	11.0
	Conergy IPG 4 S	Single	4.0

	Conergy IPG 5 S	Single	5.0
	Conergy IPG 8T	Three	8.0
	Conergy IPG 11T	Three	11.0
	Conergy IPG 15T	Three	15.0
DELTA	Solivia 3.3 APG3	Single	3.49
	Solivia 5.0 APG3	Single	4.99
	Solivia 15 EUG4TL	Three	15 (15.75) ⁷
	Solivia 20 EUG4TL	Three	20.0
	RPI-H4A	Single	4.0
	RPI-H5A	Single	5.0
	RPI-M15A	Three	15.0
	RPI-M20A	Thee	20.0
	RPI-M30	Thee	30.0
DIEHL AKO STIFTUNG & CO	Platinum 3800S	Single	3.6
	Platinum 4300S	Single	4.05
	Platinum 4301S	Single	4.05
	Platinum 4600S	Single	4.2
	Platinum 4601S	Single	4.2
	Platinum 4300TL	Single	4.12
	Platinum 4800TL	Single	4.6
	Platinum 5300TL	Single	5.0
	Platinum 6300TL	Single	6.0
	Platinum 7200TL	Single	6.9
	Platinum 13000TL	Three	12.36
	Platinum 16000TL	Three	15.0
	Platinum 19000TL	Three	18.0
	Platinum 22000TL	Three	20.7
	Platinum 7000R3-MDX	Three	6.0
	Platinum 9000R3-MDX	Three	8.0
	Platinum 11000R3-MDX	Three	10.0
	Platinum 14000R3-MDX	Three	13.0
	Platinum 16000R3-MDX	Three	15.0
EATON	ETN10K	Three	11.0
EFFEKTA	ES 4200	Single	4.0
	ES 5000	Single	5.0
ELTEK VALERE	Theia 3.8 HE-t	Single	3.8
	Theia 4.4 HE-t	Single	4.4
ENASOLAR	3kWGT-AUNZ	Single	3.1
ZEVERSOLAR	TL3200AS	Single	3.08
	TL4600AS	Single	4.4
	TL5400AS	Single	5.0
	Evershine TL4000-10	Single	4.0
	Evershine TL4000-11	Single	4.0
	Evershine TL4300-10	Single	4.0
	Evershine TL5000-10	Single	4.6
	Evershine TL5000-11	Single	5.0
	Evershine TLC4000	Three	4.0
	Evershine TLC5000	Three	5.0
	Evershine TLC6000	Three	6.0
	Evershine TL5300-10	Single	4.6
	Evershine TL5300-11	Single	4.6
	Evershine TL6000-10	Single	6.0
	Evershine TL6000-11	Single	6.0

	Eversol TLC10K	Three	10.0
	Eversol TLC12K	Three	12.0
	Eversol TLC15K	Three	15.0
	Eversol TLC17K	Three	17.0
	Eversol TLC20K	Three	20.0
	Evershine TLC8000	Three	8.8
	Evershine TLC10000	Three	10.0
FRONIUS	Galvo 3.1-1	Single	3.1
	IG 40	Single	4.1
	IG 60 HV	Single	5.0
	IG Plus 35-1	Single	3.6
	IG Plus 50-1	Single	4.0
	IG Plus 70-1	Single	6.5
	IG Plus 70-2	Two	6.5
	IG Plus 100-1	Single	8.0
	IG Plus 100-2	Two	8.0
	IG Plus 120-3	Three	10.0
	IG Plus 150-3	Three	12.0
	IG Plus 35V-1	Single	3.6
	IG Plus 50V-1	Single	4.0
	IG Plus 55V-1	Single	5.0
	IG Plus 55V-2	Two	5.0
	IG Plus 55V-3	Three	5.0
	IG Plus 60V-1	Single	6.0
	IG Plus 60V-2	Two	6.0
	IG Plus 60V-3	Three	6.0
	IG Plus 70V-1	Single	6.5
	IG Plus 70V-2	Two	6.5
	IG Plus 80V-3	Three	7.0
	IG Plus 100V-1	Single	8.0
	IG Plus 100V-2	Two	8.0
	IG Plus 100V-3	Three	8.0
	IG Plus 120V-3	Three	10.0
	IG Plus 150V-3	Three	12.0
	IG TL 3.6	Single	3.68
	IG TL 4.0	Single	4.0
	IG TL 5.0	Single	5.0
	Symo 3.7-3S	Three	3.7
	Symo 3.7-3M	Three	3.7
	Symo 4.5-3S	Three	4.5
	Symo 4.5-3M	Three	4.5
	Symo 5.0-3M	Three	5.0
	Symo 5.5-3M	Three	5.5
	Symo 6.0-3M	Three	6.0
	Symo 6.7-3M	Three	6.7
	Symo 7.0-3M	Three	7.0
	Symo 8.0-3M	Three	8.0
	Symo 8.2-3M	Three	8.2
	Symo 10.0-3M	Three	10.0
	Symo 12.5-3M	Three	12.5
	Symo 15.0-3M	Three	15.0
	Symo 17.5-3M	Three	17.5
	Symo 20.0-3M	Three	20.0

GEOPROTEK	GS 3000	Single	3.3
	GS 4000	Single	4.4
GINLONG	EKO 4600-DB	Single	4.6
	EKO 5000-DB	Single	5.0
	EKO-3.6K-2G	Single	4.0
	EKO-3K-2G	Single	3.3
	EKO-4.6K-2G	Single	5.0
	EKO-4K-2G	Single	4.4
	EKO-5K-2G	Single	5.0
	GCI-4.6K-DB	Single	4.6
	GCI-4.6K-W	Single	4.6
	GCI-5K-W	Single	5.0
	GCI-5K-DB	Single	5.0
	GCI-3.6K-2G	Single	4.0
	GCI-3.6K-2G-H	Single	4.0
	GCI-3.6K-2G-W	Single	4.0
	GCI-3K-2G	Single	3.3
	GCI-3K-2G-H	Single	3.3
	GCI-3K-2G-W	Single	3.3
	GCI-4.6K-2G	Single	5.0
	GCI-4.6K-2G-H	Single	5.0
	GCI-4.6K-2G-W	Single	5.0
	GCI-4K-2G	Single	4.4
	GCI-4K-2G-H	Single	4.4
	GCI-4K-2G-W	Single	4.4
	GCI-5K-2G	Single	5.0
	GCI-5K-2G-H	Single	5.0
	GCI-5K-2G-W	Single	5.0
	SOLAPOWA-3.6K-2G	Single	4.0
	SOLAPOWA-3K-2G	Single	3.3
	SOLAPOWA-4.6K-2G	Single	5.0
	SOLAPOWA-4K-2G	Single	4.4
	SOLAPOWA-5K-2G	Single	5.0
	Solis 4600-DB	Single	4.6
	Solis 5000-DB	Single	5.0
	SOLIS-3.6K-2G	Single	4.0
	SOLIS-3K-2G	Single	3.3
	SOLIS-4.6K-2G	Single	5.0
	SOLIS-4K-2G	Single	4.4
	SOLIS-5K-2G	Single	5.0
	Solis-15K	Three	15.0
	Solis-10K	Three	11.0
	Solis-6K	Three	6.6
	GCI-15K	Three	15.0
	GCI-10K	Three	11.0
	GCI-6K	Three	6.6
	EKO-15K	Three	15.0
	EKO-10K	Three	11.0
	EKO-6K	Three	6.6
	Solapowa-15K	Three	15.0
	Solapowa-10K	Three	11.0
	Solapowa-6K	Three	6.6
	GCI-15K-W	Three	15.0

	GCI-10K-W	Three	11.0
	GCI-6K-W	Three	6.6
	GCI-15K-H	Three	15.0
	GCI-10K-H	Three	11.0
	GCI-6K-H	Three	6.6
GOODWE	GW 4000-SS	Single	4.4
	GW4000-DT	Three	4.2
	GW4000L-DT	Three	4.0
	GW5000-DT	Three	5.0
	GW5000L-DT	Three	5.0
	GW6000-DT	Three	6.0
	GW6000L-DT	Three	6.0
	GW 4600-SS	Single	4.9
	GW 3600-DS	Single	3.6
	GW 4200-DS	Single	4.4
	GW 4600-DS	Single	4.9
	GW 5000-DS	Single	4.9
	GW 10K-DT	Three	10.0
	GW 12K-DT	Three	12.0
	GW 15K-DT	Three	15.0
	GW 17K-DT	Three	17.0
	GW20K-DT	Three	20.5
GROWATT	Sungold 5000	Single	5.0
	Growatt 3600MTL	Single	3.6
	Growatt 4200MTL	Single	4.2
	Growatt 5000MTL	Single	5.0
	Growatt 5000MTLS	Single	4.6
	Growatt 4000 UE	Three	4.0
	Growatt 5000 UE	Three	5.0
	Growatt 6000 UE	Three	6.0
	Growatt 10000 UE	Three	10.0
	Growatt 12000 UE	Three	12.0
	Growatt 18000 UE	Three	18.0
	Growatt 20000 UE	Three	20.0
HOSOLA	Hosola Bright 4200MTL	Single	4.2
	Hosola Bright 5000MTL	Single	5.0
	Hosola Bright 4200TL	Single	4.2
	Hosola Bright 5000TL	Single	5.0
	Hosola Bright 3680MTL	Single	3.68
	Hosola Bright 4600TL	Single	4.6
	Hosola Bright 4600MTL	Single	4.6
HUAWEI	SUN2000-8KTL	Tree	8.8
	SUN2000-10KTL	Tree	11
	SUN2000-12KTL	Tree	13.2
	SUN2000-15KTL	Tree	16.5
	SUN2000-17KTL	Tree	18.7
	SUN2000-20KTL	Tree	22
	SUN2000-23KTL	Tree	23
INFLUX GREEN	IGSI 5000 SJ	Single	4.6
	IGSI 6000 SJ	Single	6.0
	IHSI 3300 DJ	Single	3.3
	IGSI 4000 DJ	Single	4.0
	IGSI 5000 DJ	Single	4.95

	IGSI 10000 DJ	Three	10.0
	IGSI 12000 DJ	Three	12.0
INVT	iMars BG4KTL	Single	4.0
	iMars BG5KTL	Single	5.0
	iMars BG6KTL	Single	6.0
INGECON	INGECON SUN 3.3TL	Single	3.3
	INGECON SUN 3.68TL	Single	3.68
	INGECON SUN 3.8TL	Single	3.8
	INGECON SUN 4.6TL	Single	4.6
	INGECON SUN 5TL	Single	5.0
	INGECON SUN 6TL	Single	6.0
JFY	JSI-5000TL	Single	5.0
	SUNTREE 5000 TL	Three	5.0
	SUNTREE 6000 TL	Three	6.0
	SUNTREE 8000 TL	Three	8.0
	SUNTREE 10000 TL	Three	10.0
	SUNTREE 12000 TL	Three	12.0
	SUNTREE 15000 TL	Three	15.0
	SUNTREE 17000 TL	Three	17.0
	SUNTREE 20000 TL	Three	20.0
	SUNTWINS 4000TL	Single	4.0
	SUNTWINS 5000TL	Single	4.95
JIANGSU SOLAR POWER	SP 4000 TL-S	Single	4.0
	SP 5000 TL-S	Single	5.0
KACO	Powador 3501XI	Single	3.6
	Powador 4501XI	Single	5.06
	Powador 4202	Single	3.5
	Powador 5002	Single	4.2
	Powador 6002	Single	5.0
	Powador 10.0 TL3 INT	Three	9.0
	Powador 12.0 TL3 INT	Three	10.0
	Powador 14.0 TL3 INT	Three	12.5
	Powador 18.0 TL3 INT	Three	15.0
	Powador 30.0 TL3	Three	25.0
	Powador 33.0 TL3	Three	28.0
	Powador 36.0 TL3	Three	30.0
	Powador 4400	Single	3.6
	Powador 5300	Single	4.4
	Powador 5500	Single	4.6
	Powador 6600	Single	5.5
	Powador 5300 supreme	Single	4.4
	Powador 7700	Three	6.4
	Powador 7900	Three	6.65
	Powador 8600	Three	7.2
	Powador 9600	Three	8
	Powador 7700 supreme	Three	6.4
	Powador 7900 supreme	Three	6.65
	Powador 8600 supreme	Three	7.2
	Powador 9600 supreme	Three	8
KSTAR	KSG-3.0-SM	Single	3.1
	KSG-3.6-SM	Single	3.7
	KSG-3.6K-DM	Single	3.6
	KSG 4.2K-DM	Single	4.2

	KSG-5K-DM	Single	4.6
KLNE	Sunteams 4000	Single	4.4
	Sunteams 5000	Single	5.0
	Sunteams 10000	Three	10.0
	Sunteams 12000	Three	12.0
	Sunteams 15000	Three	15.0
	Solartec 3600	Single	3.6
	Solartec 4000	Single	4.4
	Solartec 4600	Single	4.6
	Solartec 5000	Single	4.9
	Solartec D 10000	Three	10.0
	Solartec D 12000	Three	12.0
	Solartec D 15000	Three	15.0
	Solartec 3000-AU	Single	3.0
	Solartec 3600-AU	Single	3.6
	Solartec 4000-AU	Single	4.0
	Solartec 4600-AU	Single	4.6
	Solartec 5000-AU	Single	4.9
	Solartec D 3600-AU	Single	3.6
	Solartec D 4000-AU	Single	4.0
	Solartec D 4600-AU	Single	4.6
	Solartec D 5000-AU	Single	4.9
MACSOLAR	Macsol-TL4K	Single	4.4
	Macsol-TL5K	Single	5.0
MASTERVOLT	XS 4300	Single	3.5
	XS 4300 (SW)	Single	3.5
	XS 6500	Single	5.0 (6.5)
	XS 6500	Single	5.0 (6.5)
	XL 10	Three	10.5
	XL 15	Three	15.75
MOTECH (ZEVERSOLAR)	PV Mate 3300MS-AU	Single	3.8
	PV Mate 3800MS-AU	Single	4.4
	PV Mate 4600MS-AU	Single	5.0
	PV Mate 15E-AU	Three	15.0
	PV Mate 20E-AU	Three	22.0
	PV Mate 10 NE	Three	10.0
	PV Mate 12 NE	Three	12.0
	PV Mate 15 NE	Three	15.0
	PV Mate 17 NE	Three	17.0
NARI	Nari 5000DTL	Single	5.0
	Nari 4200DTL	Single	4.3
	Nari 3600DTL	Single	3.7
	Nari 3000DTL	Single	3.1
	Nari 12500TL	Three	12.5
	Nari 10000TL	Three	10.0
OELMAIER	PAC3	Single	3.3
	PAC4	Single	4.4
	PAC5	Single	6.0
	PAC3S	Single	3.3
	PAC4S	Single	4.4
	PAC5S	Single	6.0
OMNIK	Omniksol 3.0k-TL	Single	3.3
	Omniksol 4.0k-TL	Single	4.4

	Omniksol-3k-TL2	Single	3.3
	Omniksol-4k-TL2	Single	4.4
	Omniksol-5k-TL2	Single	5.0
	Omniksol-13k-TL	Three	13.0
	Omniksol-17k-TL	Three	17.0
	Omniksol-20k-TL	Three	19.2
OPTI_SOLAR	GT 3000	Single	3.3
	GT 4000	Single	4.4
POWER MASTER	PM-3000GT	Single	3.3
	PM-4000GT	Single	4.2
	PM-5000GT	Single	5.3
ABB / POWER-ONE	PVI-3600-AU	Single	4.0
	PVI-3.6-OUTD-AU-W	Single	4.0
	PVI-3.6-OUTD-AU	Single	4.0
	PVI-3.6-OUTD-S-AU	Single	4.0
	PVI-3.6-TL-OUTD	Single	3.6
	PVI-3.6-TL-OUTD-S	Single	3.6
	PVI-3.6-TL- OUTD-W	Single	3.6
	PVI-4.2-OUTD-AU	Single	4.6
	PVI-4.2-OUTD-S-AU	Single	4.6
	PVI-4.2-OUTD-TL-W	Single	4.6
	PVI-4.2-TL- OUTD	Single	4.2
	PVI-4.2-TL- OUTD-S	Single	4.2
	PVI-5000-OUTD-AU	Single	5.0
	PVI-5000-OUTD-S-AU	Single	5.0
	PVI-5000-TL-OUTD-FS	Single	5.0
	PVI-5000-OUTD-TL-W	Single	5.0
	PVI-5000-TL- OUTD	Single	5.0
	PVI-5000-TL- OUTD-S	Single	5.0
	PVI-6000-OUTD-AU	Single	6.0
	PVI-6000-OUTD-S-AU	Single	6.0
	PVI-6000-OUTD-AU-W	Single	6.0
	PVI-6000-TL- OUTD-S	Single	6.0
	PVI-6000-TL- OUTD-W	Single	6.0
	PVI-6.0-TL-OUTD	Three	6.6
	PVI-6.0-TL-OUTD-S	Three	6.6
	PVI-6.0-TL-OUTD-FS	Three	6.6
	PVI-8.0-TL-OUTD	Three	8.9
	PVI-8.0-TL-OUTD-S	Three	8.9
	PVI-8.0-TL-OUTD-FS	Three	8.9
	PVI-10.0-OUTD-FS-AU	Three	10.0
	PVI-10.0-OUTD-S-AU	Three	10.0
	PVI-10.0-OUTD-AU	Three	10.0
	PVI-10.0-OUTD-FS	Three	10.0
	PVI-10.0-TL- OUTD	Three	10.0
	PVI-10.0-TL-OUTD-FS	Three	10.0
	PVI-10.0-TL –OUTD-S	Three	10.0
	PVI-12.5-TL-OUTD-FS-AU	Three	12.5
	PVI-12.5-OUTD-S-AU	Three	12.5
	PVI-12.5-OUTD-AU	Three	12.5
	PV-12.5-TL –OUTD	Three	12.5
	PV-12.5-TL-OUTD-S	Three	12.5
	PV-12.5-TL-OUTD-FS	Three	12.5

	PV-12.5-TL-OUTD-W	Three	12.5
	TRIO-20.0-TL-OUTD--400	Three	20.0
	TRIO-20.0-TL-OUTD-S1J-400	Three	20.0
	TRIO-20.0-TL-OUTD-S2J-400	Three	20.0
	TRIO-20.0-TL-OUTD-S2-400	Three	20.0
	TRIO-20.0-TL-OUTD-S2F-400	Three	20.0
	TRIO-20.0-TL-OUTD-S2X-400	Three	20.0
	TRIO-27.6-TL-OUTD--400	Three	27.6
	TRIO-27.6-TL-OUTD-S1J-400	Three	27.6
	TRIO-27.6-TL-OUTD-S2J-400	Three	27.6
	TRIO-27.6-TL-OUTD-S2-400	Three	27.6
	TRIO-27.6-TL-OUTD-S2F-400	Three	27.6
	TRIO-27.6-TL-OUTD-S2X-400	Three	27.6
	TRIO-5.8-TL-OUTD-400	Three	5.8
	TRIO-5.8-TL-OUTD-S-400	Three	5.8
	TRIO-7.5-TL-OUTD-400	Three	7.5
	TRIO-7.5-TL-OUTD-S-400	Three	7.5
	TRIO-8.5-TL-OUTD-400	Three	8.5
	TRIO-8.5-TL-OUTD-S-400	Three	8.5
POWER ROUTER (NEDAP)	PR37S	Single	3.7
	PR50S	Single	5.0
RAGU	RGS 4KGTL	Single	4.0
	RGS 5KGTL	Single	5.0
REFUSOL	802R008	Three	8.25
	802R010	Three	10
	802R013	Three	12.4
	802R017	Three	16.5
	802R020	Three	19.2
	803R008	Three	8.25
	803R010	Three	10
	808R023	Three	23
	807R020	Three	20
	808R013	Three	13
	808R017	Three	17
	808R020	Three	20
REIN SOLAR	RS-3000TL	Single	3.4
	RS-5000TL	Single	5.0
	RS-5000DTL	Single	4.95
RENESOLA	Replus-3000TL	Single	3.3
	Replus-4000TL	Single	4.4
	Replus-5000TL	Single	4.8
	Replus-13000TL	Three	13
	Replus-17000TL	Three	17
	Replus-20000TL	Three	19.2
	Replus-3000TL2	Single	3.3

	Replus-4000TL2	Single	4.4
	Replus-5000TL2	Single	4.8
	Replus 4000MTLA	Single	4.4
	Replus 5000MTLA	Single	5
REWATT	CR-3000TL	Single	3.3
	CR-3300 DTL	Single	3.3
	CR-4000 DTL	Single	4.0
	CR-5000 DTL	Single	4.95
	CR-5000TRI	Three	5.0
	CR-6000TRI	Three	6.0
	CR-8000TRI	Three	8.0
	CR-10000 DTL	Three	10.0
	CR-12000 DTL	Three	12.0
	CR-15000TRI	Three	15.0
	CR-17000TRI	Three	17.0
	CR-20000TRI	Three	20.0
SCHNEIDER ELECTRIC	Conext RL 4000E	Single	4.0
	Conext RL 4000E-S	Single	4.0
	Conext RL 5000E	Single	4.95
	Conext RL 5000E-S	Single	4.95
	Conext TL 15000E	Three	15.0
	Conext 20000E	Three	20.0
	Conext TL 8000E	Three	8.0
	Conext TL 10000E	Three	10.0
SEA	SEA 4000 SS	Single	4.4
	SEA 4600 SS	Single	5.1
SEA ORION	SPG-600-4K6	Single	5.0
SMA	SB 3300	Single	3.6
	SB 3800	Single	3.8
	SB 4000TL-20	Single	4.0
	SB 5000TL-20	Single	5.0
	SB 3600 TL-21	Single	3.68
	SB 4000 TL-21	Single	4.0
	SB 5000 TL-21	Single	4.6
	SMC 5000A	Single	5.5
	SMC 6000A	Single	6.0
	SMC 6000TL	Single	6.0
	SMC 7000TL	Single	7.0
	SMC 8000TL	Single	8.0
	SMC 9000TL-10	Single	9.0
	SMC 10000TL-10	Single	10.0
	WB 5000A	Single	5.5
	WB 6000A	Single	6.0
	STP 5000TL-20	Three	5.0
	STP 6000TL-20	Three	6.0
	STP 7000TL-20	Three	7.0
	STP 8000TL-20	Three	8.0
	STP 9000TL-20	Three	9.0
	STP 8000TL	Three	8.0
	STP 10000TL-10	Three	10.0
	STP 12000TL-10	Three	12.0
	STP 15000TL-10	Three	15.0
	STP 17000TL-10	Three	17.0

	STP 15000 TLEE-10	Three	15.0
	STP 20000 TLEE-10	Three	20.0
	SMC 7000HV	Single	7.0
	STP 10000TL-20	Three	10.0
	STP 12000TL-20	Three	12.0
	STP 20000TL-30	Three	20.0
	STP 25000TL-30	Three	25.0
	SB 3600SE-10	Single	3.68
	SB 5000SE-10	Single	5
SOFARSOLAR	SO FAR 20000TL-Sx	Three	20.0
	SO FAR 17000TL-Sx	Three	17.0
	SO FAR 15000TL-Sx	Three	15.0
	SO FAR 10000TL-Sx	Three	10.0
	SO FAR 3680TLM	Single	3.68
	SO FAR 4000TLM	Single	4.0
	SO FAR 4600TLM	Single	4.6
	SO FAR 5000TLM	Single	5.0
SOLAREEDGE	SE 3300	Single	3.3
	SE 3500	Single	3.5
	SE 4000	Single	4.0
	SE 4600	Single	4.6
	SE 5000	Single	5.0
	SE 5K	Three	5.0
	SE 6000	Single	6.0
	SE 7K	Three	7.0
	SE 8K	Three	8.0
	SE 9K	Three	9.0
	SE 10K	Three	10.0
	SE 10.5K	Three	10.5
	SE 12K	Three	12.0
	SE 12.5K	Three	12.5
	SE 15K	Three	15.0
	SE 16K	Three	16.0
	SE 17K	Three	17.0
SOLAR KING	SLK 3000	Single	3.3
	SLK 4000	Single	4.4
	SLK 4600	Single	4.6
	SLK 5000	Single	5.0
	SLK 5200	Single	5.2
	SLK 6000	Single	6.0
SOLAR LORD	SL 4000	Single	4.4
	SL 5000	Single	5.0
	G 5000	Single	5.0
SOLARMAX	SolarMax 4200S	Single	4.18
	SolarMax 6000S	Single	5.06
	SolarMax 10MT	Three	10.0
	SolarMax 13MT	Three	13.0
	SolarMax 15MT	Three	15.0
	SolarMax 8MT2	Three	8.0
	SolarMax 10MT2	Three	10.0
	SolarMax 13MT2	Three	13.0
	SolarMax 15MT2	Three	15.0
	SolarMax 13MT3	Three	13.0

	SolarMax 15MT3	Three	15.0
	4000P	Single	4.0
	4600P	Single	4.6
	5000P	Single	5.0
SOLAX	SL-TL3300T	Single	3.3
	SL-TL3600T	Single	3.68
	SL-TL4400T	Single	4.4
	SL-TL5000T	Single	5.0
	ZDNY-TL10000	Three	10.0
	ZDNY-TL12000	Three	12.0
	ZDNY-TL15000	Three	15.0
	ZDNY-TL17000	Three	17.0
SOLUTRONIC	SOLPLUS 35	Single	3.8
	SOLPLUS 50	Single	4.6
	SOLPLUS 55	Single	5.5
SAMIL POWER / SOLAR RIVER	SR3K3TLA1	Single	3.3
	SR4K4TLA1	Single	4.4
	SR5KTLA1	Single	5.0
	Solar River 3400 TL	Single	3.2
	Solar River 4500 TL	Single	4.3
	Solar River 5200 TL	Single	5.0
	Solar Lake 10000 TL	Three	10.0
	Solar Lake 12000 TL	Three	12.0
	Solar Lake 15000 TL	Three	15.0
	Solar Lake 17000 TL	Three	17.0
	SolarRiver 3400TL-D	Single	3.2
	SolarRiver 4500TL-D	Single	4.3
	SolarRiver 5200TL-D	Single	5
SUNGROW	SG4KTL-M	Single	4.0
	SG4KTL-31	Single	4.0
	SG5KTL-M	Single	5.0
	SG5KTL	Single	5.0
	SG10KTL	Three	10.0
	SG12KTL	Three	12.0
	SG15KTL	Three	15.0
	SG20KTL	Three	20.0
	SG30KTL	Three	30.0
	SG3KTL-S	Single	3.15
	SG4KTL-S	Single	4.21
	SG3KTL-D	Single	3.00
	SG5KTL-D	Single	5.00
SUNNA	Sunna 4200TL	Single	4.0
	Sunna 5000TL	Single	5.0
SUNNY ROO	SR 3000TLI	Single	3.3
	SR 4200TL	Single	4.2
	SR 5000TL	Single	5.0
SUNONO (SAJ)	Sunono -TL 4	Single	4.0
	Sunono -TL 4.4	Single	4.4
	Sunono -TL 5	Single	5.0
SUNPOWER	SPR-3501F-1	Single	3.5
	SPR-4001F-1	Single	4.0
	SPR-4000-M-TL-1	Single	4.0
	SPR-5000-M-TL-1	Single	4.6 (5.0)

SUNTELLITE	ZDNY 3300	Single	3.3
	ZDNY 4400	Single	4.4
	ZDNY 5000	Single	5.0
	ZDNY-TL 10000	Three	10.0
	ZDNY-TL 12000	Three	12.0
	ZDNY-TL 15000	Three	15.0
	ZDNY-TL 17000	Three	17.0
	SH-TL 4400	Single	4.4
	SH-TL 4400S	Single	4.4
	SH-TL 4400T	Single	4.4
	SH-TL 4400TS	Single	4.4
	SH-TL 5000	Single	5.0
	SH-TL 5000S	Single	5.0
	SH-TL 5000T	Single	5.0
	SH-TL 5000TS	Single	5.0
	SL – TL 4400	Single	4.4
	SL – TL 4400S	Single	4.4
	SL – TL 4400T	Single	4.4
	SL – TL 4400TS	Single	4.4
	SL – TL 5000	Single	5.0
	SL – TL 5000S	Single	5.0
	SL – TL 5000T	Single	5.0
	SL - TL 5000TS	Single	5.0
	SN – TL 4400	Single	4.4
	SN – TL 4400S	Single	4.4
	SN – TL 4400T	Single	4.4
	SN – TL 4400TS	Single	4.4
	SN – TL 5000	Single	5.0
	SN – TL 5000S	Single	5.0
	SN – TL 5000T	Single	5.0
	SN - TL 5000TS	Single	5.0
SUNWAYS	AT 3600	Single	3.6
	AT 4500	Single	4.5
	AT 5000	Single	5.0
	NT 3700	Single	3.7
	NT 4200	Single	4.2
	NT 5000	Single	5.0
	NT 10000	Three	10.0
	NT 11000	Three	11.0
	NT 12000	Three	12.0
TBEA	TBEA-GC-4KTL	Single	4.0 (4.4)
	TBEA-GC-5KTL	Single	5.0 (5.5)
TRANENERGY	PVI 3200 TL	Single	3.08
	PVI 4000 TL	Single	4.0
	PVI 4600 TL	Single	4.4
	PVI 5400 TL	Single	5.06
TRESS	TLS10KTS	Three	10.0
	TLS20KTS	Three	20.0
	TLS30KTS	Three	30.0
UREENERGY	URE3kTL	Single	3.3
	URE4kTL	Single	4.4
	URE5kTL	Single	5
	URE13kTL	Three	13

	URE 17kTL	Three	15
	URE 20kTL	Three	19.2
VOLTLOGIC	VLI105	Single	4.95
WOLONG	WL-3KS	Single	3.08
	WL-4KS	Single	4.0
	WL-5KS	Single	5.06
XANTREX	GT5.0-AU-QC-230	Single	5.0
ZEUS APPOLLO	ZA1SL-TL4400	Single	4.4
	ZA1SL-TL4400T	Single	4.4
	ZA1SL-TL 5000	Single	5.0
	ZA1SL-TL5000T	Single	5.0
	ZA1ZDNY-TL10000	Three	10.0
	ZA1ZDNY-TL12000	Three	12.0
	ZA1ZDNY-TL15000	Three	15.0
	ZA1ZDNY-TL17000	Three	17.0
	Z2013K6D	Single	3.6
	Z2014K2D	Single	4.2
	Z2014K6D	Single	4.6
	Z2014KT	Three	4.0
	Z2015KT	Three	5.0
	Z2016KT	Three	6.0
	Z2014KTL	Three	4.0
	Z2015KTL	Three	5.0
	Z2016KTL	Three	6.0

Table 3 Inverters incorporating battery systems requiring a separate design drawing.

Brand	Model	Phases	Rating Maximum Power(kW) Refer Notes 6&7
BOSCH	BPT-S 5 Hybrid	Single	5.0
BYD	BEG3000-IE	Single	3.0
GOODWE	GW5048D-ES	Single	4.6
	GW4248D-ES	Single	4.2
	GW3648D-ES	Single	3.6
	GW3648S-ES	Single	3.6
POWER ROUTER (NEDAP)	PR 30SB-XX	Single	3.0
	PR 37SB-XX	Single	3.7
	PR 50SB-XX	Single	5.0
SCHNEIDER	XW 4024-230-50	Single	4.0
	XW 4548-230-50	Single	4.5
	XW 6048-230-50	Single	6.0
SELECTRONIC SP PRO	SPMC240-AU	Single	3.0
	SPMC241-AU	Single	4.5
	SPMC481-AU	Single	5.0
	SPMC482-AU	Single	7.5
	SPMC1201	Single	7.5
	SPLC1200	Single	15.0
	SPLC1202	Single	20.0
SELECTRONIC SP PRO GO	SPMC240-2.0	Single	2.0 (3.0)
	SPMC240-2.5	Single	2.5 (3.0)
	SPMC241-2.0	Single	2.0 (4.5)
	SPMC241-2.5	Single	2.5 (4.5)
	SPMC241-3.0	Single	3.0 (4.5)
	SPMC241-3.5	Single	3.5 (4.5)
	SPMC481-2.0	Single	2.0 (5.0)
	SPMC481-2.5	Single	2.5 (5.0)
	SPMC481-3.0	Single	3.0 (5.0)
	SPMC481-4.0	Single	4.0 (5.0)
	SPMC482-2.0	Single	2.0 (7.5)
	SPMC482-2.5	Single	2.5 (7.5)
	SPMC482-3.0	Single	3.0 (7.5)
	SPMC482-4.0	Single	4.0 (7.5)
	SPMC482-4.9	Single	4.9 (7.5)
	SPMC482-5.0	Single	5.0 (7.5)
	SPMC482-6.0	Single	6.0 (7.5)
	SPMC1201-6.0	Single	6.0 (7.5)
	SPMC1200-15.0	Single	15.0
	SPMC1202-20.0	Single	20.0
SELECTRONIC SP PRO UPS	SPMC240-0.0	Single	0.0 (3.0)
	SPMC241-0.0	Single	0.0 (4.5)
	SPMC481-0.0	Single	0.0 (5.0)
	SPMC482-0.0	Single	0.0 (7.5)
	SPMC1201-0.0	Single	0.0 (7.5)
	SPLC1200-0.0	Single	0.0 (15.0)
	SPLC1202-0.0	Single	0.0 (20.0)

SMA	SBU 5000 Back up unit. Needs to be used in with SMA AS-box (i.e. External Grid Protection device) and second inverter for PV array connection	Single	5.0
	SI 6.0H-11	Single	4.6
	SI 8.0H-11	Single	6
	SI 3.0M-11	Single	2.3
	SI 4.4M-11	Single	3.3
SOLARWORX	GTI-2000-122	Single	2.2
	GTI-2000-242	Single	2.2
	GTI-2000-482	Single	2.2
SOLAX	SK-TL3000	Single	3.0
	SK-TL3700	Single	3.68
	SK-TL5000	Single	4.6
	SK-SU3000	Single	3.0
	SK-SU3700	Single	3.68
	SK-SU5000	Single	4.6
XANTRAX	XW 4024-230-50	Single	4.0
	XW 4548-230-50	Single	4.5
	XW 6048-230-50	Single	6.0

Notes:

- Inverters with a rating greater than 10kW single phase and 30kW three phase are outside the scope of this connection application process, therefore require a different application which can be found on Western Power's website at [Generator and transmission connections](#)
- Inverter approval: Inverters not listed in this document can be considered for acceptance subject to a review of the testing and compliance documentation. The request and documentation shall be submitted to embedded.generation@westernpower.com.au. Documentation for inverters shall be submitted by an Australian manufacturer or an Australian company representing an overseas manufacturer of an inverter. The minimum documentation provided to Western Power for review shall be as detailed below:
 - Test report(s) undertaken by an appropriate NATA recognised laboratory indicating compliance with AS4777:2005 parts 2 and 3.
 - Certificate of Suitability or Compliance from an appropriate state authority or certification organisation indicating acceptance of the product for sale in Australia.
 - Test report(s) undertaken by an appropriate NATA recognised laboratory indicating compliance with IEC62109-1:2010 and IEC62109-2:2011 or AS/NZS3100:2009.

Note: From 15 July 2015 inverters used with photovoltaic modules and arrays must be compliant with IEC62109-1 and IEC62109-2 to be eligible for listing.

 - Inverters with battery ports or integrated batteries must be configurable to prevent injection of battery stored energy into the network and the configuration settings to prevent it must be able to be secured from alteration. A manufacturer declaration stating that the inverter complies with this requirement must be provided.

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3. These lists detail all inverters which are acceptable for connection to Western Power's distribution network at this time.
 4. Inverter power ratings listed in this table are manufacturers published values of a.c. output of:
 - maximum power, or
 - maximum and nominal where the same, or
 - nominal where maximum value not published.
 5. The Inverter power ratings listed in this table are usually shown as the maximum output but in some cases the manufacturer has chosen to limit the power output to establish a new maximum by using settings in the embedded control software. In such a case the rating is shown as, for example, a figure of 3.0 (3.3) where 3.0 is the new maximum limit pre-set by the manufacturer and (3.3) is the original maximum output. In the case of inverters incorporating batteries 3.0 would be the factory pre-set grid injection limit and 3.3 the nominal input/output power rating.