

รายชื่อผลิตภัณฑ์อินเวอร์เตอร์ที่ผ่านการทดสอบตาม
ข้อกำหนดสำหรับอินเวอร์เตอร์ที่ใช้ในระบบผลิตไฟฟ้าประเภทเชื่อมต่อกับโครงข่าย
ของการไฟฟ้านครหลวง

No	Brand	Model/Type	Description	Firmware version
1	ABB	PVI-3.6-TL-OUTD	230 V, 1ph, 50 Hz, 3.6 kW	C.0.3.5
				C.0.3.6
				C.0.3.7
2	ABB	PVI-3.6-TL-OUTD-S	230 V, 1ph, 50 Hz, 3.6 kW	C.0.3.5
				C.0.3.6
				C.0.3.7
3	ABB	PVI-5000-TL-OUTD	230 V, 1ph, 50 Hz, 5 kW	C.0.3.5
				C.0.3.6
				C.0.3.7
4	ABB	PVI-5000-TL-OUTD-S	230 V, 1ph, 50 Hz, 5 kW	C.0.3.5
				C.0.3.6
				C.0.3.7
5	ABB	PVI-10.0-TL-OUTD	400 V, 3ph, 50 Hz, 10 kW	C026 Update ver.1435D
				C026 Update ver.1536F
				C408 Update ver.1507D
6	ABB	PVI-10.0-TL-OUTD-S	400 V, 3ph, 50 Hz, 10 kW	C026 Update ver.1435D
				C026 Update ver.1536F
				C408 Update ver.1507D
7	ABB	PVI-10.0-TL-OUTD-FS	400 V, 3ph, 50 Hz, 10 kW	C026 Update ver.1435D
				C026 Update ver.1536F
				C408 Update ver.1507D
8	ABB	PVS-100-TL	400 V, 3ph, 50 Hz, 100 kW	1808C
9	ABB	TRIO-20.0-TL-OUTD-400	400 V, 3ph, 50 Hz, 20 kW	1506F
				1711B
				1721B
				1731A
10	ABB	TRIO-20.0-TL-OUTD-S2-400	400 V, 3ph, 50 Hz, 20 kW	1506F
				1711B
				1721B
				1731A

No	Brand	Model/Type	Description	Firmware version
11	ABB	TRIO-20.0-TL-OUTD-S2F-400	400 V, 3ph, 50 Hz, 20 kW	1506F
				1711B
				1721B
				1731A
12	ABB	TRIO-20.0-TL-OUTD-S2X-400	400 V, 3ph, 50 Hz, 20 kW	1506F
				1711B
				1721B
				1731A
13	ABB	TRIO-27.6-TL-OUTD-400	400 V, 3ph, 50 Hz, 27.6 kW	1506F
				1711B
				1721B
				1731A
14	ABB	TRIO-27.6-TL-OUTD-S2-400	400 V, 3ph, 50 Hz, 27.6 kW	1506F
				1711B
				1721B
				1731A
15	ABB	TRIO-27.6-TL-OUTD-S2F-400	400 V, 3ph, 50 Hz, 27.6 kW	1506F
				1711B
				1721B
				1731A
16	ABB	TRIO-27.6-TL-OUTD-S2X-400	400 V, 3ph, 50 Hz, 27.6 kW	1506F
				1711B
				1721B
				1731A
17	ABB	TRIO-50.0-TL-OUTD	400 V, 3ph, 50 Hz, 50 kW	1621F
				1648E
				1711C
				1715D
17	ABB	TRIO-50.0-TL-OUTD	400 V, 3ph, 50 Hz, 50 kW	1736B
18	ABB	UNO-2.0-TL-OUTD	230 V, 1ph, 50 Hz, 2 kW	C30C
19	ABB	UNO-2.0-TL-OUTD-S	230 V, 1ph, 50 Hz, 2 kW	C30C
20	ABB	UNO-DM-2.0-TL-PLUS-SB	230 V, 1ph, 50 Hz, 2 kW	C066
21	ABB	UNO-DM-3.3-TL-PLUS-SB	230 V, 1ph, 50 Hz, 3.3 kW	C066
22	ABB	UNO-DM-5.0-TL-PLUS-SB	230 V, 1ph, 50 Hz, 5 kW	C066
23	Afore	HNS5000TL	230 V, 1ph, 50 Hz, 5 kW	H400S300
24	CEHE	EHE-N1K5TL-TM	230 V, 1ph, 50 Hz, 1.5 kW	4038

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25	CEHE	EHE-N2KTL-TM	230 V, 1ph, 50 Hz, 2 kW	4038
26	CEHE	EHE-N3KTL-TM	230 V, 1ph, 50 Hz, 3 kW	4038
27	CEHE	EHE-N4KTL-TM	230 V, 1ph, 50 Hz, 4 kW	4038
28	CEHE	EHE-N4K6TL-TM	230 V, 1ph, 50 Hz, 4.6 kW	4038
29	Cyber Power	CPSPV5000ETL	230 V, 1ph, 50 Hz, 5 kW	Firmware (C): V01.15 Firmware (M): V01.12 Firmware (R): V01.01
30	DELTA	RPI H5A_120	230 V, 1ph, 50 Hz, 5 kVA	DSP : 0202 RED : 0200 COMM : 0206
31	DELTA	RPI H5A_020	230 V, 1ph, 50 Hz, 5 kVA	DSP : 0202 RED : 0200 COMM : 0206
32	DELTA	RPI-M20A	230/400 V, 3ph, 50 Hz, 20 kVA	DSP : 2.03 RED : 1.51 COMM : 1.80
33	DELTA	RPI M50A_120	230/400 V, 3ph, 50 Hz, 50 kVA	DSP: 1.32, 1.41, 1.50, 1.40, 1.60, 1.80, 2.00 RED: 1.20, 1.22, 1.40, 1.50, 1.70, 2.00 COMM: 1.18, 1.22, 1.50, 1.80, 2.20, 2.40
34	DELTA	RPI M50A_020	230/400 V, 3ph, 50 Hz, 50 kVA	DSP: 1.32, 1.41, 1.50, 1.40, 1.60, 1.80, 2.00 RED: 1.20, 1.22, 1.40, 1.50, 1.70, 2.00 COMM: 1.18, 1.22, 1.50, 1.80, 2.20, 2.40
35	DELTA	RPI M50A_121	230/400 V, 3ph, 50 Hz, 50 kVA	DSP: 1.32, 1.41, 1.50, 1.40, 1.60, 1.80, 2.00 RED: 1.20, 1.22, 1.40, 1.50, 1.70, 2.00 COMM: 1.18, 1.22, 1.50, 1.80, 2.20, 2.40
36	DELTA	RPI M50A_021	230/400 V, 3ph, 50 Hz, 50 kVA	DSP: 1.32, 1.41, 1.50, 1.40, 1.60, 1.80, 2.00 RED: 1.20, 1.22, 1.40, 1.50, 1.70, 2.00 COMM: 1.18, 1.22, 1.50, 1.80, 2.20, 2.40
37	DELTA	RPI M50A_122	230/400 V, 3ph, 50 Hz, 50 kVA	DSP: 1.32, 1.41, 1.50, 1.40, 1.60, 1.80, 2.00 RED: 1.20, 1.22, 1.40, 1.50, 1.70, 2.00 COMM: 1.18, 1.22, 1.50, 1.80, 2.20, 2.40
38	DELTA	RPI M50A_022	230/400 V, 3ph, 50 Hz, 50 kVA	DSP: 1.32, 1.41, 1.50, 1.40, 1.60, 1.80, 2.00 RED: 1.20, 1.22, 1.40, 1.50, 1.70, 2.00 COMM: 1.18, 1.22, 1.50, 1.80, 2.20, 2.40
39	DELTA	RPI M50A_12s	230/400 V, 3ph, 50 Hz, 50 kVA	DSP: 1.32, 1.41, 1.50, 1.40, 1.60, 1.80, 2.00 RED: 1.20, 1.22, 1.40, 1.50, 1.70, 2.00 COMM: 1.18, 1.22, 1.50, 1.80, 2.20, 2.40
40	EneTelus	EPC-A-S35MPT	230 V, 1ph, 50 Hz, 3.5 kW	1.02.01.04 A0-.A1
41	EneTelus	EPC-A-S55MPT	230 V, 1ph, 50 Hz, 5.5 kW	1.02.01.04 A0-.A1
42	ENPHASE	IQ7-60-2-INT	230 V, 1ph, 50 Hz, 240 W	520-00082-r01-v02.12.00

No	Brand	Model/Type	Description	Firmware version
43	ENPHASE	IQ7PLUS-72-2-INT	230 V, 1ph, 50 Hz, 290 W	520-00082-r01-v02.12.00
44	FRECON	F010i-4PVb	400 V, 3ph, 50 Hz, 10 kVA	SW Version: 2.0
45	FRONIUS	FRONIUS IG PLUS35V-1	230 V, 1ph, 50 Hz, 3.5 kW	5.11.09 VER
46	FRONIUS	SYMO 6.0-3-M	230/400 V, 3ph, 50 Hz, 6 kW	V1.1.14.1
47	FRONIUS	SYMO 20.0-3-M	230/400 V, 3ph, 50 Hz, 20 kW	V1.1.14.1
48	GOODWE	GW3000-NS	230 V, 1ph, 50 Hz, 3 kW	V1.11.11
49	GOODWE	GW5000D-NS	230 V, 1ph, 50 Hz, 5 kW	V1.00.00
50	GOODWE	GW5000-DT	230/400 V, 50 Hz, 5 kW	V1.10.00
51	GOODWE	GW10KN-DT	230/400 V, 50 Hz, 10 kVA	V1.10.00
52	GRAVIC	G-4300TLS	230 V, 1ph, 50 Hz, 3 kW	V1.0
53	GRAVIC	G-4500TLD	230 V, 1ph, 50 Hz, 5 kW	V1.0
54	Growatt	Growatt 1000	220 V, 1ph, 50 Hz, 1 kW	G.1.8
55	Growatt	Growatt 1500	220 V, 1ph, 50 Hz, 1.6 kW	G.1.8
56	Growatt	Growatt 2000	220 V, 1ph, 50 Hz, 2 kW	G.1.8
57	Growatt	Growatt 3000	220 V, 1ph, 50 Hz, 2.85 kW	G.1.8
58	Growatt	Growatt 3600 MTL-10	220 V, 1ph, 50 Hz, 3.6 kVA	AS1.0
59	Growatt	Growatt 4200 MTL-10	220 V, 1ph, 50 Hz, 4.2 kVA	AS1.0
60	Growatt	Growatt 5000 MTL-10	220 V, 1ph, 50 Hz, 4.6 kVA	AS1.0
61	Growatt	Growatt SPH6000	230 V, 1ph, 50 Hz, 6 kW	RA1.0
62	Growatt	Growatt 10000TL3-S	230/400 V, 3ph, 50 Hz, 10 kW	dhaa0101Build : dhaa-1908
63	Growatt	Growatt 10000UE	230/400 V, 3ph, 50 Hz, 10 kVA	Main Ver : 0D0.9 Comm Ver : 0C0.9
64	Growatt	Growatt 12000UE	230/400 V, 3ph, 50 Hz, 12 kVA	Main Ver : 0D0.9 Comm Ver : 0C0.9
65	Growatt	Growatt 18000UE	230/400 V, 3ph, 50 Hz, 18 kVA	Main Ver : 0D0.9 Comm Ver : 0C0.9
66	Growatt	Growatt 20000UE	230/400 V, 3ph, 50 Hz, 20 kVA	Main Ver : 0D0.9 Comm Ver : 0C0.9
67	Growatt	Growatt 20000TL3-HE-TH	230/400 V, 3ph, 50 Hz, 20 kVA	CAAA-1010
68	Growatt	Growatt 40000TL3-NS	230/400 V, 3ph, 50 Hz, 40 kVA	TH1.0-th1.0
69	Huawei	SUN2000-12KTL	230/400 V, 3ph, 50 Hz, 12 kVA	V100R001
70	Huawei	SUN2000-20KTL	230/400 V, 3ph, 50 Hz, 20 kVA	V100R001
71	Huawei	SUN2000-33KTL	400 V, 3ph, 50 Hz, 30 kVA	V200R001
72	Huawei	SUN2000-36KTL	230/400 V, 3ph, 50 Hz, 36 kVA	V200R002
73	Huawei	SUN2000-42KTL	480 V, 3ph, 50 Hz, 42 kVA	V200R002

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74	Huawei	SUN2000-60KTL-M0	230/400 V, 3ph, 50 Hz, 60 kVA	V300R001
75	Huawei	SUN2000-65KTL-M0	480 V, 3ph, 50 Hz, 65 kVA	V300R001
76	INVT	iMars MG3KTL	230 V, 1ph, 50 Hz, 3 kVA	Ver1 : V1.01 Ver2 : V1.01 MCU : V1.00
77	INVT	iMars MG5KTL-2M	230 V, 1ph, 50 Hz, 4.6 kVA	Ver1 : V1.01 Ver2 : V1.01 MCU : V1.00
78	INVT	iMars BG10KTR	230/400 V, 3ph, 50 Hz, 10 kVA	Version1 : V1.20 Version2 : V1.20 MCU Version : V1.20
79	JFY	JSI-1500TL	230 V, 1ph, 50 Hz, 1.5 kW	V1.2
80	JFY	JSI-2000TL	230 V, 1ph, 50 Hz, 2 kW	V1.2
81	JFY	JSI-3000TL	230 V, 1ph, 50 Hz, 3 kW	V1.2
82	JFY	SUNTWINS 5000TL	230 V, 1ph, 50 Hz, 5 kW	E1.0
83	JFY	SUNTREE 10000TL	230/400 V, 3ph, 50 Hz, 10 kW	M1.00_S1.00
84	JFY	SUNTREE 15000TL	230/400 V, 3ph, 50 Hz, 15 kW	M1.00--S1.00
85	JFY	SUNTREE 20000TL	230/400 V, 3ph, 50 Hz, 20 kW	M1.00_S1.00
86	JFY	SUNTREE 30000TL	230/400 V, 3ph, 50 Hz, 30 kW	M1.00--S1.00
87	KACO	blueplanet 5.0 TL3	230/400 V, 3ph, 50 Hz, 5 kVA	PKT : V3.28 ARM : V3.46 (DA29) CFG : V5.0690 (AF34) DSP : V1.08 (A9A2)
88	KACO	blueplanet 6.5 TL3 M2 WM OD IIG0	400 V, 3ph, 50 Hz, 6.5 kVA	PKT : V3.25 ARM : V3.34 (BC95) CFG : V5.0600 (14D6) DSP : V1.05 (E715)
89	KACO	blueplanet 7.5 TL3 M2 WM OD IIG0	400 V, 3ph, 50 Hz, 7.5 kVA	PKT : V3.25 ARM : V3.34 (BC95) CFG : V5.0600 (14D6) DSP : V1.05 (E715)
90	KACO	blueplanet 9.0 TL3 M2 WM OD IIG0	400 V, 3ph, 50 Hz, 9.0 kVA	PKT : V3.25 ARM : V3.34 (BC95) CFG : V5.0600 (14D6) DSP : V1.05 (E715)

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91	KACO	Blueplanet 20.0 TL3 M2 WM OD IIG0	230/400 V, 3ph, 50 Hz, 20 kVA	PKT: V4.14 ARM: V5.14 (2745) CFG: V6.0748 (A3DF) DSP-AC: V4.12 (2BEC) DSP-DC: V4.03 (C141)
92	KACO	Blueplanet 50.0 TL3 M1 WM OD IIGM	230/400 V, 3ph, 50 Hz, 50 kVA	PKT : V3.12 ARM : V3.70 (9D01) CFG : V5.1608 (5D88) DSP : V2.11 (3391)
93	KACO	Blueplanet 50.0 TL3 M1 WM OD IIGX	230/400 V, 3ph, 50 Hz, 50 kVA	PKT : V4.09 ARM : V5.08 CFG : V6.0572 DSP-AC : V4.09 DSP-DC : V4.02
				PKT : V4.13 ARM : V5.10 (1A80) CFG : V6.0692 (8A13) DSP : V4.12 (3DC1)
94	KACO	Powador 10.0 TL3- INT	400 V, 3ph, 50 Hz, 9.0 kW	PKT : V3.01 ARM : V3.48 (7CA5) CFG : V5.0862 (4863) DSP-AC : V1.72 (3F7B) DSP-DC : V1.60 (13EE)
95	KACO	Powador 20.0 TL3- INT	400 V, 3ph, 50 Hz, 17 kW	PKT : V3.01 ARM : V3.48 (7CA5) CFG : V5.0862 (4863) DSP-AC : V1.72 (3F7B) DSP-DC : V1.60 (13EE)
96	KACO	Powador 30.0 TL3 - M – INT	230/400 V, 3ph, 50 Hz, 25 kVA	PKT : V3.25 ARM : V3.78 (2780) CFG : V5.1700 (7AD2) DSP-AC : V2.18 (4CBA) DSP-DC : V2.04 (7740)

No	Brand	Model/Type	Description	Firmware version
97	KACO	Powador 30.0 TL3 - XL - INT	230/400 V, 3ph, 50 Hz, 25 kVA	PKT : V3.25 ARM : V3.78 (2780) CFG : V5.1700 (7AD2) DSP-AC : V2.18 (4CBA) DSP-DC : V2.04 (7740)
98	KACO	Powador 30.0 TL3 - XL - INT - SPD 1+2	230/400 V, 3ph, 50 Hz, 25 kVA	PKT : V3.25 ARM : V3.78 (2780) CFG : V5.1700 (7AD2) DSP-AC : V2.18 (4CBA) DSP-DC : V2.04 (7740)
99	KACO	Powador 30.0 TL3 - XL - F - INT	230/400 V, 3ph, 50 Hz, 25 kVA	PKT : V3.25 ARM : V3.78 (2780) CFG : V5.1700 (7AD2) DSP-AC : V2.18 (4CBA) DSP-DC : V2.04 (7740)
100	KACO	Powador 30.0 TL3 - XL - F - SPD 1+2	230/400 V, 3ph, 50 Hz, 25 kVA	PKT : V3.25 ARM : V3.78 (2780) CFG : V5.1700 (7AD2) DSP-AC : V2.18 (4CBA) DSP-DC : V2.04 (7740)
101	KACO	Powador 39.0 TL3-XL-INT	230/400 V, 3ph, 50 Hz, 33.3 kVA	PKT : V2.20 ARM : V2.30 (C576) CFG : V5.0696 (9677) DSP-AC : V1.64 (E199) DSP-DC : V1.54 (8678)
102	KACO	Powador 60.0 TL3-XL-INT	230/400 V, 3ph, 50 Hz, 49.9 kVA	PKT : V2.20 ARM : V2.30 (C576) CFG : V5.0696 (9677) DSP-AC : V1.64 (E199) DSP-DC : V1.54 (8678)
103	KEHUA TECH	SPI20K-B	230/400 V, 50 Hz, 20 kW	HMI Version: V1.00 DSP1 Version: V1.00 DSP2 Version: V1.00
104	KOSTAL	PIKO 5.5	230/400 V, 3ph, 50 Hz, 5.5 kVA	FW 05.35 UI 06.11 HW 0100 PAR 02.49

No	Brand	Model/Type	Description	Firmware version
105	KOSTAL	PIKO 20	230/400 V, 3ph, 50 Hz, 20 kW	FW 05.31 UI 06.02 HW 0100 PAR 02.46
106	KSTAR	KSG-5K-DM	230 V, 1ph, 50 Hz, 5 kW	DSP V1.0, ARM V1.0
107	KSTAR	KSG-20K	230/400 V, 3ph, 50 Hz, 20 kW	DSP V1.8, ARM V1.6
108	KSTAR	KSG-50K	230/400 V, 3ph, 50 Hz, 50 kW	DSP V1.8, ARM V1.6
109	LEAD SOLAR	LS1400S	230 V, 1ph, 50 Hz, 1.4 kW	LS1400_DCAC_20161222 LS1400_DCDC_20161222
110	LEONICS	APOLLO G-4300TL(M)	230 V, 1ph, 50 Hz, 3 kW	DSP : 1.0; MCU : 0.20
111	LEONICS	APOLLO G-4500TL(M)	230 V, 1ph, 50 Hz, 5 kW	DSP : 1.0; MCU : 0.20
112	LEONICS	APOLLO GTP-4010TL	230/400 V, 3ph, 50 Hz, 10kVA	ARM VER : 1.3 DSP VER : 1.5
113	LEONICS	APOLLO GTP-4020TL	230/400 V, 3ph, 50 Hz, 20kVA	ARM VER : 1.3 DSP VER : 1.5
114	Litto	LS 3000HD	230 V, 50 Hz, 3 kVA	ARM:V1.050 DSP:V1.023
115	Litto	LS 5000HD	230 V, 50 Hz, 5 kVA	ARM:V1.038 DSP:V1.025
116	Litto	LT 10000HD	230/400 V, 50 Hz, 10 kVA	V1.050/V1.031/V1.0
117	Litto	LT 20000HD	230/400 V, 50 Hz, 20 kVA	V1.038/V1.040/V1.0
118	Maktronic	MG-3000TH	230 V, 50 Hz, 3 kW	D262-A247
119	PrimeVOLT	PV-3000N-V	230 V, 1ph, 50 Hz, 3 kVA	BT0101
120	PrimeVOLT	PV-5000W-HV	230 V, 1ph, 50 Hz, 5 kW	TW0101
121	PrimeVOLT	PV-5000W-V	230 V, 1ph, 50 Hz, 5 kW	DE0101
122	PrimeVOLT	PV-10000T-U	230/400 V, 3ph, 50 Hz, 10 kW	TA0101
123	PrimeVOLT	PV-20000T-U	230/400 V, 3ph, 50 Hz, 20 kW	AR0101
124	Repulsor	HOME ULTIMATE	230 V, 1ph, 50 Hz, 5 kW	1.0.73.R
125	Satcon	EQX1000PV400XN/P	400 V, 3ph, 50 Hz, 1000 kW	3.467
126	Schneider Electric	Conext CL 20000 E	400 V, 3ph, 50 Hz, 20 kVA	COMM APPL : Ver02.02.01 CTRL DCAC : Ver02.02.01 CTRL DCDC : Ver02.02.01
				COMM APPL : Ver02.05.01 CTRL DCAC : Ver02.05.01 CTRL DCDC : Ver02.05.01
				COMM APPL : Ver02.08.01 CTRL DCAC : Ver02.08.01 CTRL DCDC : Ver02.08.01

No	Brand	Model/Type	Description	Firmware version
127	Schneider Electric	Conext CL 25000 E	400 V, 3ph, 50 Hz, 25 kVA	COMM APPL : Ver02.02.01 CTRL DCAC : Ver02.02.01 CTRL DCDC : Ver02.02.01
				COMM APPL : Ver02.05.01 CTRL DCAC : Ver02.05.01 CTRL DCDC : Ver02.05.01
				COMM APPL : Ver02.08.01 CTRL DCAC : Ver02.08.01 CTRL DCDC : Ver02.08.01
128	Schneider Electric	Conext CL-60 E	230/400 V, 3ph, 50 Hz, 60 kVA	MDSP_CL-60E_V11_V1_C LCD_CL-60E_V11_V03_R_M
129	SMA	SB 2500TLST-21	230 V, 1ph, 50 Hz, 2.5 kW	FW PACK 2.55 HP2.52
130	SMA	SB 3000TLST-21	230 V, 1ph, 50 Hz, 3 kW	FW PACK 2.55 HP2.52
131	SMA	SB3.0-1AV-40	230 V, 1ph, 50 Hz, 3 kW	1.1.41.R
132	SMA	SB 3600TL-21	230 V, 1ph, 50 Hz, 3.68 kW	FW PACK 2.55 HP2.52
				FW PACK 2.80 HP2.52
133	SMA	SB 5000TL-21	230 V, 1ph, 50 Hz, 5 kW	FW PACK 2.55 HP2.52
				FW PACK 2.80 HP2.52
134	SMA	SB5.0-1AV-40	230 V, 1ph, 50 Hz, 5 kW	1.1.41.R
135	SMA	STP 5000TL-20	230/400 V, 3ph, 50 Hz, 5 kW	FW PACK 2.56 HP2.51
136	SMA	STP 9000TL-20	230/400 V, 3ph, 50 Hz, 9 kW	FW PACK 2.51 HP2.50
				FW PACK 2.53 HP2.50
				FW PACK 2.56 HP2.51
137	SMA	STP 17000TL-10	230/400 V, 3ph, 50 Hz, 17 kW	FW PACK 2.55 HP2.52
138	SMA	STP 20000TLEE-10	230/400 V, 3ph, 50 Hz, 20kW	FW PACK 2.53 HP2.50
				FW PACK 2.54 HP2.50
139	SMA	STP 20000TL-30	400 V, 3ph, 50 Hz, 20 kW	Software package 02.80.XX.R ⁽¹⁾ Software version 01.00.XX.R ⁽¹⁾
				Software package 02.81.XX.R ⁽¹⁾ Software version 01.00.XX.R ⁽¹⁾
				Software package 02.83.XX.R ⁽¹⁾ Software version 01.02.XX.R ⁽¹⁾
				FW PACK 2.82 HP1.01
				FW PACK 2.83 HP1.02

No	Brand	Model/Type	Description	Firmware version
140	SMA	STP 25000TL-30	400 V, 3ph, 50 Hz, 25 kW	Software package 02.80.XX.R ⁽¹⁾ Software version 01.00.XX.R ⁽¹⁾
				Software package 02.81.XX.R ⁽¹⁾ Software version 01.00.XX.R ⁽¹⁾
				Software package 02.83.XX.R ⁽¹⁾ Software version 01.02.XX.R ⁽¹⁾
				FW PACK 2.82 HP1.01
				FW PACK 2.83 HP1.02
141	SMA	STP 50-40	400 V, 3ph, 50 Hz, 50 kVA	1.03.08.R
				1.03.12.R
				1.03.20.R
142	Solar Edge	SE5000	230 V, 1ph, 50 Hz, 5 kW	DSP1/2:1.0210/2.0052
143	Solar Edge	SE10K	400 V, 3ph, 50 Hz, 10 kW	DSP1/2:1.0013/2.0019
144	Solar Edge	SE27.6K	230/400 V, 50 Hz, 27.6 kVA	DSP1/2:1.0013/2.0019
145	SOLAX	X1-LX3600	230 V, 1ph, 50 Hz, 3.68 kW	DSP1:2.17 DSP2:2.02
146	SOLAX	X1-LX4600	230 V, 1ph, 50 Hz, 4.2 kW	DSP1:2.17 DSP2:2.02
147	SOLAX	X1-LX5200	230 V, 1ph, 50 Hz, 4.6 kW	DSP1:2.17 DSP2:2.02
148	SOLAX	X1-5.0-T-D	230 V, 1ph, 50 Hz, 4.6 kVA	Master: 3.17 Slave: 1.05 Manager: 1.07
149	Steca	StecaGrid 3010	230V, 1ph, 50Hz, 3kW	BFAPI: 2.5.4 FBL: 1.1.2 APP: 3.50.0 PAR: 21.0.29
150	Steca	StecaGrid 4200	230 V, 1ph, 50 Hz, 4.2 kW	BFAPI: 2.5.4 FBL: 1.1.1 APP: 3.51.0 PAR: 21.0.29
151	SUNGROW	SG36KTL-M	230/400 V, 3ph, 50 Hz, 36 kW	DSP_SG36KTL-M_V11_A LCD_SG36KTL-M_V01_A_M
152	SUNGROW	SG60KTL	230/400 V, 3ph, 50 Hz, 60 kW	DSP_SG60KTL_V11_A LCD_SG60KTL_V03_A_M
153	TBEA	TS50KTL_PLUS	540 V, 3ph, 50 Hz, 50 kVA	DSP Master: V1.0.0.0.B1.1.12 DSP Slaver: V1.0.0.0.B1.1.12

No	Brand	Model/Type	Description	Firmware version
154	Thai Tabuchi	TPD-T250P6-TH	230/400 V, 3ph, 50 Hz, 25 kW	N1D0.01
155	TOSOT	SGC15KTLA	380V, 50Hz, 3ph, 12.5 kW	ZQ3330R_SGmv_15kwIpm_V1.5
156	Tranergy	PVI3000TL	230 V, 1ph, 50 Hz, 2.8 kW	E1.00
157	Tranergy	PVI5400TL	230 V, 1ph, 50 Hz, 4.6 kW	E1.00
158	Tranergy	TRI017KTL	230/400 V, 3ph, 50 Hz, 17 kW	Master : V W07 Slaver : V W07 HMI : V1.0.7
159	Tranergy	TRM033KTL	230/400 V, 3ph, 50 Hz, 33 kW	Master : M15 Slaver : M15 HMI : V1.24
160	Trinasolar	TS-3K1SJ	230 V, 1ph, 50 Hz, 3 kW	0E0017
161	Trinasolar	TS-5K2SJ	230 V, 1ph, 50 Hz, 5 kW	0E0017
162	V SOLAR	VSOLAR-3K-1PH	230 V, 1ph, 50 Hz, 3 kW	Ver.11.15
163	V SOLAR	VSOLAR-4K-1PH	230 V, 1ph, 50 Hz, 4 kW	Ver.11.14
164	V SOLAR	VSOLAR-5K-1PH	230 V, 1ph, 50 Hz, 4.9 kW	Ver.11.14