

# QUALIFIED GRID SUPPORT UTILITY INTERACTIVE INVERTERS AND CONTROLLERS AND EQUIPMENT FOR CUSTOMER SELF-SUPPLY SYSTEMS

(EQUIPMENT THAT MEETS CUSTOMER SELF-SUPPLY)

Last Updated: 11/17/17

The Hawaiian Electric Companies released Grid Supportive Utility Interactive Inverter Certification Requirements which includes the Source Requirements Document Version 1.1 ('SRD Version 1.1') for UL 1741, Supplement SA. Inverter manufacturers must certify 'Grid Support Utility Interactive' inverters to SRD Version 1.1 by March 10, 2018 to remain qualified for installation on the islands of Oahu, Hawai'i, Maui, Molokai and Lanai.

Technology Type:	Manufacturer:	HI SRD Certification	Model:
CSS System	Apparent Energy	No Information Submitted	SG424 120V/208V/240V w/ SG Gateway
CSS System	Chilicon Power LLC	No Information Submitted	CP-250-60/72-208/240-MC4 (FW 232 or greater) w/ CP-100 Gateway & Aeon Labs DSB28-ZWUS or ZW095-A and JLM Energy Phazr-6, Phazr-7, Phazr-8, Phazr-9, Phazr-10, Phazr-11 or Phazr-12
CSS System	Chilicon Power LLC	No Information Submitted	CP-250-60-208/240-MC4 (FW 232 or greater) w/ CP-100 Gateway & Aeon Labs DSB28-ZWUS or ZW095-A
CSS System	Chilicon Power LLC	No Information Submitted	CP-250-60-208/240-MC4 (FW 232 or greater) w/ CP-100 Gateway & Aeon Labs DSB28-ZWUS or ZW095-A and JLM Energy Phazr-6, Phazr-7, Phazr-8, Phazr-9, Phazr-10, Phazr-11 or Phazr-12
CSS System	Chilicon Power LLC	No Information Submitted	CP-250-60-208/240-MC4-MTC (FW 232 or greater) w/ CP-100 Gateway & Aeon Labs DSB28-ZWUS or ZW095-A
CSS System	Chilicon Power LLC	No Information Submitted	CP-250-60-208/240-MC4-MTC (FW 232 or greater) w/ CP-100 Gateway & Aeon Labs DSB28-ZWUS or ZW095-A and JLM Energy Phazr-6, Phazr-7, Phazr-8, Phazr-9, Phazr-10, Phazr-11 or Phazr-12

Technology Type:	Manufacturer:	HI SRD Certification	Model:
CSS System	Chilicon Power LLC	No Information Submitted	CP-250E-60/72-208/240-MC4 (FW 232 or greater) w/ CP-100 Gateway & Aeon Labs DSB28-ZWUS or ZW095-A
CSS System	Delta Electronics	No Information Submitted	Solivia 3.0 NA G4 TL (FW MainPower:02.02.01) w/ Delta Gateway or SolarCity Gateway
CSS System	Delta Electronics	No Information Submitted	Solivia 3.8 NA G4 TL (FW MainPower:02.02.01) w/ Delta Gateway or SolarCity Gateway
CSS System	Delta Electronics	No Information Submitted	Solivia 5.2 NA G4 TL (FW MainPower:02.02.01) w/ Delta Gateway or SolarCity Gateway
CSS System	Delta Electronics	No Information Submitted	Solivia 6.6 NA G4 TL (FW MainPower:02.02.01) w/ Delta Gateway or SolarCity Gateway
CSS System	Delta Electronics	No Information Submitted	Solivia 7.6 NA G4 TL (FW MainPower:02.02.01) w/ Delta Gateway or SolarCity Gateway
CSS System	Delta Energy Systems (SolarCity)	No Information Submitted	SolarCity H6 EOE47020593 in zero export mode w/SolarCity Gateway and Zigbee communication link
CSS System	Delta Energy Systems (SolarCity)	No Information Submitted	SolarCity H6 EOE47020609 in zero export mode w/SolarCity Gateway and Zigbee communication link
CSS System	Delta Energy Systems (SolarCity)	No Information Submitted	SolarCity H6 EOE47020667 in zero export mode w/SolarCity Gateway and Zigbee communication link
CSS System	Eguana Technologies	No Information Submitted	ACB05U-LP (FW 6.151223) w/ E-Gear EMC
CSS System	Eguana Technologies	No Information Submitted	B5048US (FW 6.151223) w/ E-Gear EMC
CSS System	Enphase Energy	No Information Submitted	B280-1200-LL-I-US00-FRO (HEI 2015 Oahu-Maui-Hawaii Full, Self Supply) w/ a) Envoy S ENV-S-AM1-120 or b) AC Combiner Box XAM1-120. Both with opt CT-200-SPLIT and a disconnecting relay or contactor suppld by others and opt c) S230 or S280 series inverters
CSS System	Enphase Energy	Self Certification v1.1	IQ6-60-2-US (HEI SRD 1.0 or higher Oahu-Maui-Hawaii CSS or Power Down, PD) w/ ENV-IQ-AM1-240 or X-IQ-AM1-240-B both with optional CT-200-SPLIT and disconnecting relay or contactor
CSS System	Enphase Energy	Self Certification v1.1	IQ6-60-5-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CSS or Power Down, PD) w/ ENV-IQ-AM1-240 or X-IQ-AM1-240-B both with optional CT-200-SPLIT and disconnecting relay or contactor
CSS System	Enphase Energy	Self Certification v1.1	IQ6-60-ACM-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CSS or Power Down, PD) w/ ENV-IQ-AM1-240 or X-IQ-AM1-240-B both with optional CT-200-SPLIT and disconnecting relay or contactor

Technology Type:	Manufacturer:	HI SRD Certification	Model:
CSS System	Enphase Energy	Self Certification v1.1	IQ6PLUS-72-2-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CSS or Power Down, PD) w/ ENV-IQ-AM1-240 or X-IQ-AM1-240-B both with optional CT-200-SPLIT and disconnecting relay or contactor
CSS System	Enphase Energy	Self Certification v1.1	IQ6PLUS-72-5-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CSS or Power Down, PD) w/ ENV-IQ-AM1-240 or X-IQ-AM1-240-B both with optional CT-200-SPLIT and disconnecting relay or contactor
CSS System	Enphase Energy	Self Certification v1.1	IQ6PLUS-72-ACM-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CSS or Power Down, PD) w/ ENV-IQ-AM1-240 or X-IQ-AM1-240-B both with optional CT-200-SPLIT and disconnecting relay or contactor
CSS System	Enphase Energy	Self Certification v1.1	S230-60-LL-2-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawai'i CSS or Power Down, PD) w/ a Envoy S ENV-S-AM1-120 or b) AC Combiner Box XAM1-120. Both with optional CT-200-SPLIT and a disconnecting relay or contactor supplied by others
CSS System	Enphase Energy	Self Certification v1.1	S230-60-LL-5-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CSS or Power Down, PD) w/ a) Envoy S ENV-S-AM1-120 or b) AC Combiner Box XAM1-120. Both with optional CT-200-SPLIT and a disconnecting relay or contactor supplied by others
CSS System	Enphase Energy	Self Certification v1.1	S280-60-LL-2-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CSS or Power Down, PD) w/ a) Envoy S ENV-S-AM1-120 or b) AC Combiner Box XAM1-120. Both with optional CT-200-SPLIT and a disconnecting relay or contactor supplied by others
CSS System	Enphase Energy	Self Certification v1.1	S280-60-LL-5-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CSS or Power Down, PD) w/ a) Envoy S ENV-S-AM1-120 or b) AC Combiner Box XAM1-120. Both with optional CT-200-SPLIT and a disconnecting relay or contactor supplied by others
CSS System	Enphase Energy	No Information Submitted	S280-ACB-LL-US (HEI 2015 Oahu-Maui-Hawaii Full, Self Supply) w/ a) Envoy S ENV-S-AM1-120 or b) AC Combiner Box XAM1-120. Both with opt CT-200-SPLIT and a disconnecting relay or contactor suppld by others and opt c) S230 or S280 series inverters

Technology Type:	Manufacturer:	HI SRD Certification	Model:
CSS System	EnSync, Inc.	Hawaii SRD V 1.0	LCM-100ACPCU (FW DSP-1330, CPLD-130, Central DSP-1430 & Monitor:1320) w/ EnSync DER Flex, Egauge EG3000 series or equivalent and Continental Control Systems Accu-CT series or equivalent
CSS System	EnSync, Inc.	Hawaii SRD V 1.0	LCM-150ACPCU (FW DSP-1330, CPLD-130, Central DSP-1430 & Monitor:1320) w/ EnSync DER Flex, Egauge EG3000 series or equivalent and Continental Control Systems Accu-CT series or equivalent
CSS System	EnSync, Inc.	Hawaii SRD V 1.0	LCM-250ACPCU (FW DSP-1330, CPLD-130, Central DSP-1430 & Monitor:1320) w/ EnSync DER Flex, Egauge EG3000 series or equivalent and Continental Control Systems Accu-CT series or equivalent
CSS System	EnSync, Inc.	Hawaii SRD V 1.0	LCM-50ACPCU (FW DSP-1330, CPLD-130, Central DSP-1430 & Monitor:1320) w/ EnSync DER Flex, Egauge EG3000 series or equivalent and Continental Control Systems Accu-CT series or equivalent
CSS System	Fronius USA, LLC	No Information Submitted	Primo 10.0-1 208-240 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	No Information Submitted	Primo 11.4-1 208-240 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	No Information Submitted	Primo 12.5-3 480 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	No Information Submitted	Primo 15.0-3 208 (FW 0.3.7.0 or higher and Datamanager FW 3.7.0 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 3.8-1 208-240 (FW 0.3.8.2 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 3.8-1 208-240 (FW V1.1.1.0 or greater) w/ JLM Energy Energizr 200
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 5.0-1 208-240 (FW 0.3.8.2 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 5.0-1 208-240 (FW V1.1.1.0 or greater) w/ JLM Energy Energizr 200
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 6.0-1 208-240 (FW 0.3.8.2 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 6.0-1 208-240 (FW V1.1.1.0 or greater) w/ JLM Energy Energizr 200

Technology Type:	Manufacturer:	HI SRD Certification	Model:
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 7.6-1 208-240 (FW 0.3.8.2 or higher and Datamanager FW 3.7.2) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 7.6-1 208-240 (FW V1.1.1.0 or greater) w/ JLM Energy Energizr 200
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 8.2-1 208-240 (FW 0.3.8.2 or higher and Datamanager FW 3.7.2) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 10.0-3 208-240 (FW 0.3.7.0 or higher and Datamanager 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 12.0-3 208-240 (FW 0.3.7.0 or higher and Datamanager 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 12.5-3 480 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	No Information Submitted	Symo 15.0-3 208 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 15.0-3 480 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 17.5-3 480 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 20.0-3 480 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 22.7-3 480 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 24.0-3 480 (FW 0.3.7.0 or higher and Datamanager FW 3.7.2 or higher) w/ Fronius Smart Meter
CSS System	Ideal Power	No Information Submitted	30B3-4DF w/ GELI system controller
Inverter/CSS	OutBack Power Technologies	No Information Submitted	FXR2524A (FW 1.6.32 or greater)
Inverter/CSS	OutBack Power Technologies	No Information Submitted	FXR3048A (FW 1.6.32 or greater)
Inverter/CSS	OutBack Power Technologies	No Information Submitted	Radian GS4048A (FW 1.6.32 or greater)
CSS System	OutBack Power Technologies	No Information Submitted	Radian GS4048A (FW 1.6.32 or greater) w/ Sonnen ECO

Technology Type:	Manufacturer:	HI SRD Certification	Model:
Inverter/CSS	OutBack Power Technologies	No Information Submitted	Radian GS8048A (FW 1.6.32 or greater)
CSS System	OutBack Power Technologies	No Information Submitted	Radian GS8048A (FW 1.6.32 or greater) w/ Sonnen ECO
Inverter/CSS	OutBack Power Technologies	No Information Submitted	VFXR3524A (FW 1.6.32 or greater)
Inverter/CSS	OutBack Power Technologies	No Information Submitted	VFXR3648A (FW 1.6.32 or greater)
CSS System	SHENZHEN Clou Energy Electrical Co	No Information Submitted	NEPCS-100 (Firmware V1C1B1) w/ energy management system CL5903
CSS System	SINEXCEL INC	Hawaii SRD V 1.0	PWS1-100K-NA (FW AC module DSP:1330, CPLD: 130, U2 DSP:1430, Monitor:1320)
CSS System	SINEXCEL INC	Hawaii SRD V 1.0	PWS1-150K-NA (FW AC module DSP:1330, CPLD: 130, U2 DSP:1430, Monitor:1320)
CSS System	SINEXCEL INC	Hawaii SRD V 1.0	PWS1-250K-NA (FW AC module DSP:1330, CPLD: 130, U2 DSP:1430, Monitor:1320)
CSS System	SINEXCEL INC	Hawaii SRD V 1.0	PWS1-50K-NA (FW AC module DSP:1330, CPLD: 130, U2 DSP:1430, Monitor:1320)
CSS System	SolarEdge	Hawaii SRD V 1.0	SE10000A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE10KUSXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE11400A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE14.4KXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE20KUSXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE3000A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment

Technology Type:	Manufacturer:	HI SRD Certification	Model:
CSS System	SolarEdge	Hawaii SRD V 1.0	SE3000H-USXXXXXXXX (Firmware Version 2.0.140 or greater) w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE33.3KUSXXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE3800A-USXXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE3800H-USXXXXXXXX (Firmware Version 2.0.140 or greater) w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE5000A-USXXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE5000H-USXXXXXXXX (Firmware Version 2.0.140 or greater) w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE6000A-USXXXXXXXX (Firmware Version 2.0.140 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE6000H-USXXXXXXXX (Firmware Version 2.0.140 or greater) w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE7600A-USXXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE7600H-USXXXXXXXX (Firmware Version 2.0.140 or greater) w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	SolarEdge	Hawaii SRD V 1.0	SE9KUSXXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment
CSS System	Solectria Renewables, LLC (Yaskawa-Solectria Solar)	No Information Submitted	PVI-36TL-480 w/ PLC or Automation Controller (FW DSP 0.30)

Technology Type:	Manufacturer:	HI SRD Certification	Model:
CSS System	Sungrow USA	No Information Submitted	SG30KU (FW DSP_SG36KU_VI3_A) w/ Advantech Ark 2150-F, 2 Elkor meters, DC & AC supply, 6 CT's, cell modem and ethernet switch
CSS System	Sungrow USA	No Information Submitted	SG36KU (FW DSP_SG36KU_VI3_A) w/ Advantech Ark 2150-F, 2 Elkor meters, DC & AC supply, 6 CT's, cell modem and ethernet switch
CSS System	Sungrow USA	No Information Submitted	SG60KU-M (FW DSP_SG60KU-M_VII_A) w/ Advantech Ark 2150-F, 2 Elkor meters, DC & AC supply, 6 CT's, cell modem and ethernet switch
CSS System	SunPower	No Information Submitted	MI-C-320-US208/240-10 (HECO OHM R14H profile and IC:15431 OC:15365 or later) w/ SunPower PVS5X or later version
Inverter/CSS	Tabuchi Electric Co.	No Information Submitted	EHW-S55P3B-PNUS (Service Mode "HECO") w/ EIBS
CSS System	Tabuchi Electric Co.	Hawaii SRD V 1.0	THD-S55P3BB-US (Firmware Version 4.10, Service Mode "HECO") w/EIBS
CSS System	Tabuchi Electric Co.	Hawaii SRD V 1.0	THD-S55P3B-US (Firmware Version 4.10, Service Mode "HECO") w/ EIBS
CSS System	Tesla	No Information Submitted	AC Powerwall 2 (Firmware Version HI-14H) w/ Tesla Backup Gateway or Tesla Gateway



# QUALIFIED GRID SUPPORT UTILITY INTERACTIVE INVERTERS AND CONTROLLERS MEETING MANDATORY FUNCTIONS SPECIFIED IN RULE 14H

(EQUIPMENT THAT MEETS CUSTOMER GRID SUPPLY AND STANDARD INTERCONNECTION AGREEMENT (SIA))

Last Updated: 11/17/17

The Hawaiian Electric Companies released Grid Supportive Utility Interactive Inverter Certification Requirements which includes the Source Requirements Document Version 1.1 ('SRD Version 1.1') for UL 1741, Supplement SA. Inverter manufacturers must certify 'Grid Support Utility Interactive' inverters to SRD Version 1.1 by March 10, 2018 to remain qualified for installation on the islands of Oahu, Hawai'i, Maui, Molokai and Lanai.

Technology Type:	Manufacturer:	HI SRD Certification	Model:
Inverter	Apparent Energy	No Information Submitted	SG424 120V/208V/240V
Inverter	Canadian Solar	No Information Submitted	CSI-36KTL-CT (DSP FW Ver 0.30)
Inverter	Chilicon Power LLC	No Information Submitted	CP-250-60/72-208/240-MC4-MTC (FW 232 or greater)
Inverter	Chilicon Power LLC	No Information Submitted	CP-250-60-208/240-MC4 (FW 232 or greater)
Inverter	Chilicon Power LLC	No Information Submitted	CP-250E-60/72-208/240-MC4 (FW 232 or greater)
Inverter	Chint Power Systems	No Information Submitted	CPS SCA36KTL-DO/US (DSP FW Ver 0.30)
Inverter	CPE Power Systems Inc. (Hitachi)	No Information Submitted	EV-PCS 6KW 240V 1PH
Inverter	Delta Electronics	No Information Submitted	M28U_120 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	M28U_121 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V1.3X)
Inverter	Delta Electronics	No Information Submitted	M28U_122 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	M42U_120 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	M42U_121 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)

Technology Type:	Manufacturer:	HI SRD Certification	Model:
Inverter	Delta Electronics	No Information Submitted	M42U_122 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	M60U_120 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	M60U_121 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	M60U_122 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	M80U_120 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	M80U_121 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	M80U_122 (Firmware Verison: DC arc fault detection version V01.0X, DSP: V01.0X)
Inverter	Delta Electronics	No Information Submitted	Solivia 3.0 NA G4 TL (FW MainPower:02.02.01)
Inverter	Delta Electronics	No Information Submitted	Solivia 3.8 NA G4 TL (FW MainPower:02.02.01)
Inverter	Delta Electronics	No Information Submitted	Solivia 5.2 NA G4 TL (FW MainPower:02.02.01)
Inverter	Delta Electronics	No Information Submitted	Solivia 6.6 NA G4 TL (FW MainPower:02.02.01)
Inverter	Delta Electronics	No Information Submitted	Solivia 7.6 NA G4 TL (FW MainPower:02.02.01)
Inverter	Delta Energy Systems (SolarCity)	No Information Submitted	SolarCity H6 EOE47020593
Inverter	Delta Energy Systems (SolarCity)	No Information Submitted	SolarCity H6 EOE47020609
Inverter	Delta Energy Systems (SolarCity)	No Information Submitted	SolarCity H6 EOE47020667
Inverter	Dynapower Company	No Information Submitted	MPS-250
Inverter	Eguana Technologies	No Information Submitted	ACB05U-LP (FW 6.151223)
Inverter	Eguana Technologies	No Information Submitted	B5048US (FW 6.151223)
Inverter	Enphase Energy	No Information Submitted	B280-1200-LL-I-US00-FRO (HEI 2015 Oahu-Maui-Hawaii Full, Self Supply or Oahu-Maui-Hawaii Full)
Inverter	Enphase Energy	Self Certification v1.1	IQ6-60-2-US may have additional suffixes (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CGS or Power Down, PD)
Inverter	Enphase Energy	Self Certification v1.1	IQ6-60-5-US may have additional suffixes (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CGS or Power Down, PD)

Technology Type:	Manufacturer:	HI SRD Certification	Model:
Inverter	Enphase Energy	Self Certification v1.1	IQ6-60-ACM-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CGS or Power Down, PD)
Inverter	Enphase Energy	Self Certification v1.1	IQ6PLUS-72-2-US may have additional suffixes (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CGS or Power Down, PD)
Inverter	Enphase Energy	Self Certification v1.1	IQ6PLUS-72-5-US may have additional suffixes (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CGS or Power Down, PD)
Inverter	Enphase Energy	Self Certification v1.1	IQ6PLUS-72-ACM-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CGS or Power Down, PD)
Inverter	Enphase Energy	Self Certification v1.1	S230-60-LL-2-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawai'i CGS or Power Down, PD)
Inverter	Enphase Energy	Self Certification v1.1	S230-60-LL-5-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CGS or Power Down, PD)
Inverter	Enphase Energy	Self Certification v1.1	S280-60-LL-2-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CGS or Power Down, PD)
Inverter	Enphase Energy	Self Certification v1.1	S280-60-LL-5-US (HEI SRD V 1.0 and higher, Oahu-Maui-Hawaii CGS or Power Down, PD)
Inverter	Enphase Energy	No Information Submitted	S280-ACB-LL-US (HEI 2015 Oahu-Maui-Hawaii Full, Self Supply or Oahu-Maui-Hawaii Full)
Inverter	EnSync, Inc.	No Information Submitted	DC-AC (Drawer in Matrix Energy Management System, 25 kW)
Inverter	EnSync, Inc.	Hawaii SRD V 1.0	LCM-100ACPCU (FW DSP-1330, CPLD-130, Central DSP-1430 & Monitor:1320)
Inverter	EnSync, Inc.	Hawaii SRD V 1.0	LCM-150ACPCU (FW DSP-1330, CPLD-130, Central DSP-1430 & Monitor:1320)
Inverter	EnSync, Inc.	Hawaii SRD V 1.0	LCM-250ACPCU (FW DSP-1330, CPLD-130, Central DSP-1430 & Monitor:1320)
Inverter	EnSync, Inc.	Hawaii SRD V 1.0	LCM-50ACPCU (FW DSP-1330, CPLD-130, Central DSP-1430 & Monitor:1320)
Inverter	Fronius USA, LLC	No Information Submitted	Primo 10.0-1 208-240 (FW V1.1.1.0 or greater)
Inverter	Fronius USA, LLC	No Information Submitted	Primo 11.4-1 208-240 (FW V.1.1.1.0 or greater)
Inverter	Fronius USA, LLC	No Information Submitted	Primo 12.5-1 208-240 (FW V1.1.1.0 or greater)
Inverter	Fronius USA, LLC	No Information Submitted	Primo 15.0-1 208-240, 240V (FW V1.1.1.0 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 3.8-1 208-240 (FW V1.1.1.0 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 5.0-1 208-240 (FW V1.1.1.0 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 6.0-1 208-240 (FW V1.1.1.0 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 7.6-1 208-240 (FW V1.1.1.0 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Primo 8.2-1 208-240 (FW V1.1.1.0 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 10.0-3 208-240 (FW V1.1.3.0 or greater)

Technology Type:	Manufacturer:	HI SRD Certification	Model:
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 10.0-3 208-240 Lite (FW V1.1.3.0 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 10.0-3 480 (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 10.0-3 480 Lite (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 12.0-3 208-240, 208V (FW V1.1.3.0 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 12.0-3 208-240, 240V (FW V1.1.3.0)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 12.5-3 480 (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 12.5-3 480 Lite (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	No Information Submitted	Symo 15.0-3 208, 208N (FW V1.1.3.0 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 15.0-3 480 (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 15.0-3 480 Lite (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 17.5-3 480 (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 17.5-3 480 Lite (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 20.0-3 480 (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 20.0-3 480 Lite (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 22.7-3 480 (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 22.7-3 480 Lite (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 24.0-3 480 (FW V1.1.5.1 or greater)
Inverter	Fronius USA, LLC	Hawaii SRD V 1.0	Symo 24.0-3 480 Lite (FW V1.1.5.1 or greater)
Inverter	Ideal Power	No Information Submitted	30B3-4DF
Inverter/CSS	OutBack Power Technologies	No Information Submitted	FXR2524A (FW 1.6.32 or greater)
Inverter/CSS	OutBack Power Technologies	No Information Submitted	FXR3048A (FW 1.6.32 or greater)
Inverter/CSS	OutBack Power Technologies	No Information Submitted	Radian GS4048A (FW 1.6.32 or greater)
Inverter/CSS	OutBack Power Technologies	No Information Submitted	Radian GS8048A (FW 1.6.32 or greater)
Inverter/CSS	OutBack Power Technologies	No Information Submitted	VFXR3524A (FW 1.6.32 or greater)
Inverter/CSS	OutBack Power Technologies	No Information Submitted	VFXR3648A (FW 1.6.32 or greater)
Inverter	SHENZHEN Clou Energy Electrical Co	No Information Submitted	NEPCS-100 (Firmware V1C1B1)
Inverter	SINEXCEL INC	Hawaii SRD V 1.0	PWS1-100K-NA (FW AC module DSP:1330, CPLD: 130, U2 DSP:1430, Monitor:1320)
Inverter	SINEXCEL INC	Hawaii SRD V 1.0	PWS1-150K-NA (FW AC module DSP:1330, CPLD: 130, U2 DSP:1430, Monitor:1320)
Inverter	SINEXCEL INC	Hawaii SRD V 1.0	PWS1-250K-NA (FW AC module DSP:1330, CPLD: 130, U2 DSP:1430, Monitor:1320)

Technology Type:	Manufacturer:	HI SRD Certification	Model:
Inverter	SINEXCEL INC	Hawaii SRD V 1.0	PWS1-50K-NA (FW AC module DSP:1330, CPLD: 130, U2 DSP:1430, Monitor:1320)
Inverter	SMA America, LLC	No Information Submitted	SB 3.0-1SP-US-40 (FW 2.01.17R or later)
Inverter	SMA America, LLC	No Information Submitted	SB 3.8-1SP-US-40 (FW 2.01.17R or later)
Inverter	SMA America, LLC	No Information Submitted	SB 3000TL-US-22 (FW 2.65.01.R or higher)
Inverter	SMA America, LLC	No Information Submitted	SB 3800TL-US-22 (FW 2.65.01.R or higher)
Inverter	SMA America, LLC	No Information Submitted	SB 4000TL-US-22 (FW 2.65.01.R or higher)
Inverter	SMA America, LLC	No Information Submitted	SB 5.0-1SP-US-40 (FW 2.xx.yy.R)
Inverter	SMA America, LLC	No Information Submitted	SB 5000TL-US-22 (FW 2.65.01.R or higher)
Inverter	SMA America, LLC	No Information Submitted	SB 6.0-1SP-US-40 (FW 2.xx.yy.R)
Inverter	SMA America, LLC	No Information Submitted	SB 6000TL-US-22 (FW 2.65.01.R or higher)
Inverter	SMA America, LLC	No Information Submitted	SB 7.0-1SP-US-40 (FW 2.01.17R or later)
Inverter	SMA America, LLC	No Information Submitted	SB 7.7-1SP-US-40 (FW 2.01.17R or later)
Inverter	SMA America, LLC	No Information Submitted	SB 7000TL-US-22 (FW 2.65.01.R or higher)
Inverter	SMA America, LLC	No Information Submitted	SB 7700TL-US-22 (FW 2.65.01.R or higher)
Inverter	SMA America, LLC	Self Certification v1.1	STP 12000TL-US-10 (Firmware 2.83.03.R or higher)
Inverter	SMA America, LLC	Self Certification v1.1	STP 15000TL-US-10 (Firmware 2.83.03.R or higher)
Inverter	SMA America, LLC	Self Certification v1.1	STP 20000TL-US-10 (Firmware 2.83.03.R or higher)
Inverter	SMA America, LLC	Self Certification v1.1	STP 24000TL-US-10 (Firmware 2.83.03.R or higher)
Inverter	SMA America, LLC	Self Certification v1.1	STP30000TL-US-10 (Firmware 2.83.03.R or higher)
Inverter	SMA America, LLC	Self Certification v1.1	STP50-US-40 (Firmware Version 01.01.19.R or higher)
Inverter	SolarEdge	Hawaii SRD V 1.0	SE10000A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9

Technology Type:	Manufacturer:	HI SRD Certification	Model:
Inverter	SolarEdge	Hawaii SRD V 1.0	SE10KUSXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE11400A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE14.4KXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE20KUSXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE3000A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE3000H-USXXXXXXX (Firmware Version 2.0.140 or greater)
Inverter	SolarEdge	Hawaii SRD V 1.0	SE33.3KXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE3800A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE3800H-USXXXXXXX (Firmware Version 2.0.140 or greater)
Inverter	SolarEdge	Hawaii SRD V 1.0	SE5000A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE5000H-USXXXXXXX (Firmware Version 2.0.140 or greater)
Inverter	SolarEdge	Hawaii SRD V 1.0	SE6000A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE6000H-USXXXXXXX (Firmware Version 2.0.140 or greater)
Inverter	SolarEdge	Hawaii SRD V 1.0	SE7600A-USXXXXXXX (Firmware Version 2.52.410 and greater) where X can be blank, letters a-z, or numbers 0-9
Inverter	SolarEdge	Hawaii SRD V 1.0	SE7600H-USXXXXXXX (Firmware Version 2.0.140 or greater)
Inverter	SolarEdge	Hawaii SRD V 1.0	SE9KUSXXXXXXX (Firmware Version 2.19.759 and greater) where X can be blank, letters a-z, or numbers 0-9, w/ SolarEdge Electricity Meter or 3rd party metering equipment

Technology Type:	Manufacturer:	HI SRD Certification	Model:
Inverter	Solectria Renewables, LLC (Yaskawa-Solectria Solar)	No Information Submitted	PVI 36TL-480 (FW DSP 0.30)
Inverter	Solectria Renewables, LLC (Yaskawa-Solectria Solar)	No Information Submitted	PVI-3800TL
Inverter	Solectria Renewables, LLC (Yaskawa-Solectria Solar)	No Information Submitted	PVI-5200TL
Inverter	Solectria Renewables, LLC (Yaskawa-Solectria Solar)	No Information Submitted	PVI-6600TL
Inverter	Solectria Renewables, LLC (Yaskawa-Solectria Solar)	No Information Submitted	PVI-7600TL
Inverter	Sungrow USA	No Information Submitted	SG30KU (FW DSP_SG36KU_VI3_A)
Inverter	Sungrow USA	No Information Submitted	SG36KU (FW DSP_SG36KU_VI3_A)
Inverter	Sungrow USA	No Information Submitted	SG60KU-M (FW DSP_SG60KU-M_VII_A)
Inverter	SunPower	No Information Submitted	MI-C-320-US208/240-10 (HECO OHM R14H profile and IC:15431 OC:15365 or later)
Inverter	SunPower	No Information Submitted	SPR-3002m (FW 2.65.01.R or greater)
Inverter	SunPower	No Information Submitted	SPR-3802m (FW 2.65.01.R or greater)
Inverter	SunPower	No Information Submitted	SPR-5002m (FW 2.65.01.R or greater)
Inverter	SunPower	No Information Submitted	SPR-6002m (FW 2.65.01.R or greater)
Inverter	SunPower	No Information Submitted	SPR-7002m (FW 2.65.01.R or greater)
Inverter	SunPower	No Information Submitted	SPR-7702m SMA equal
Inverter/CSS	Tabuchi Electric Co.	No Information Submitted	EHW-S55P3B-PNUS (Service Mode "HECO") w/ EIBS
Inverter	Tabuchi Electric Co.	Hawaii SRD V 1.0	THD-S55P3BB-US (Firmware Version 4.10, Service Mode "HECO")
Inverter	Tabuchi Electric Co.	Hawaii SRD V 1.0	THD-S55P3B-US (Firmware Version 4.10, Service Mode "HECO")
Inverter	Tesla	No Information Submitted	AC Powerwall 2 (Firmware Version HI-14H)