Pika Islanding Inv

X7600 and X11400 S

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 12/06/17

A single-inverter solution for simplified solar-plus-storage

Solar-plus-storage is simple with the Pika Islanding Inverter. This bi-directional, REbus™-powered inverter offers a simpler, more efficient design for integrating smart batteries with solar.

Ideal for self-supply, backup power, zero-export and energy cost management, the Pika Islanding Inverter is our most powerful, feature-rich inverter yet.

Feature Overview:

- Single inverter for grid-tied solar with smart battery integration
- Simplified system design: No autotransformer or battery inverter needed
- PV Link optimizers provide MPPT, rapid shutdown and arc fault protection
- User-selectable modes for backup power, self-supply and zero-export
- Free online monitoring dashboard included

Intertek

AC OUTPUT/ GRID-TIE	Note	X7600 Series	X11400 Series	Unit
Rated AC Power Output	-	7600	11400	W
AC Output Voltage	-	120/240, 1Ø	120/208, 3Ø	VAC
AC Frequency	-	60	60	Hz
Maximum Continuous Output Current	-	32	32	A, RMS
Ground-Fault Isolation Detection	Integrated	Included	Included	-
Charge Battery from AC	-	Yes	Yes	-
THD (current)	-	< 2%	< 2%	-
Typical Nighttime Power Consumption	-	< 7	< 7	W
AC OUTPUT/ BACKUP				
Rated AC Backup Power Output	-	8000	8000	W
Maximum AC Backup Power Output	-	12000	12000	W
AC Backup Output Voltage	-	120/240, 1Ø	120/240, 1Ø	VAC
AC Frequency	-	60	60	Hz
AC Circuit Breaker	Integrated	50	50	A
THD (voltage)	-	< 2%	< 2%	-
Automatic Switchover Time	-	< 1	< 1	Seconds
Typical Nighttime Power Consumption	-	30	30	W
DC INPUT				
DC Input Voltage Range	-	v360-420	360-420	VDC
Nominal DC Input Voltage	REbus™	380	380	VDC
Max Input Current	-	20	30	A
Reverse-Polarity Protection	Integrated, certified	Yes	Yes	-
Ground-Fault Isolation Detection	Integrated, not certified	Yes	Yes	-
Transformerless, Ungrounded	Integrated, certified	Yes	Yes	-
DC INPUT/ BATTERY				
Maximum Continuous Power		8000	12000	W
Internal DC Distribution Breakers	2p DC breakers	4x2p30A[1]	4x 2p30A	-
DC Fuses on Plus and Minus	Field replaceable	40[2]	40	A
2-pole Disconnection	Integrated	Yes	Yes	-
EFFICIENCY				
Peak Efficiency	-	98%	98%	-
CEC Weighted Efficiency	-	97%	97%	-

[1]Inverter model X7601 features *both:* 2x 2p20A and 2x 2p30A breakers. [2]Inverter model X7601 features 30A fuses.

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OPERATIONAL FEATURES AND MODES	Note	Specification	Unit
Islanding[3]	-	Transformerless	-
Grid Sell	-	Yes	-
Self Consumption	-	Yes	-
Prioritized Charging from Renewables	-	Yes	-
Genset Integration	-	In progress	-
DC Load Support	-	Yes	-
Grid Support - Zero Export	-	Yes	-
ADDITIONAL FEATURES			
Supported Communication Interfaces	-	CANbus, RS485[4], Ethernet	-
System Monitoring and Network Communications	Free, integrated	REview™	-
Revenue Grade Data, ANSI C12.1	Optional	-	-
Critical Loads Disconnect[3]	Integrated	Yes	-
Manual Inverter Bypass Switch	Integrated	Automatic	-
Rapid Shutdown functionality for NEC 2014 690.12	Integrated	Yes	-
Arc Fault Protection (Type 1) for NEC 2011 690.11 compliance	Integrated	No	-
Warranty	Standard, extended	10, 20	Years
STANDARD COMPLIANCE			
Safety	-	UL1741, CSA 22.2	-
Grid Connection Standards	-	IEEE 1547[5]	-
Emissions	-	FCC part15 class B	-
DIMENSIONS AND INSTALLATION SPECIFICATIONS			
Wire Gauge Range	-	10 - 8	AWG
Total AC Ports / Size	Standard knockouts	2 x 0.75", 2 x 1"	-
Total DC Ports / Size	Standard knockouts	5 x 1"	-
Dimensions	HxWxD	24.5 x 19.25 x 8	In
Weight	-	62.7	Lb
Cooling	User replaceable fan	Forced convection	-
Noise	-	< 40	dBA
Min-Max Operating Temperature	-	-20 to +50	ºC
Protection Rating	Enclosure Type	3R	NEMA
INSTALLATION GUIDELINES			
Battery Types Supported	-	Smart battery native[6]	-
Module String Size per PV Link Optimizer	S2500 series PV Link	2-9	PV Modules
Maximum Recommended DC Power from PV	30% max PV oversize factor	10-15	kW
Batteries per Inverter	Unlimited	-	-

[3] Islanding functionality not included on 3ø inverters, [4] Modbus, [5] Standards in progress: UL 1741SA, Hawaii TrOV2, FVRT, [6] Li-ion, PbSO4, AHI and others with Pika B Link™

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