

Series Spec Sheet

SNJ

THREE PHASE INVERTER

The SNJ three phase emergency lighting inverter provides up to 50kW of backup power for larger facilities and campuses.

FEATURES AND SPECIFICATIONS

• Construction

- 98% Efficient (Typical)
- PWM/IGBT Technology & Microprocessor Control
- Internal Maintenance Bypass
- User Programmable with Password Protection
- Automatic Event & Alarm Log
- RS232 Communications Port
- Input Circuit Breaker
- Low Audible Noise

• Optional Features

- Enhanced Communications
 - Expanded Building Management Protocols
 - BACnet or Modbus Communications Interface
 - IoT Connect Cloud Software
- External Maintenance Bypass
- Status Monitoring Dry Form C Contacts
- Summary Dry Form C Contacts
- Output Circuit Breakers
 - 4 800 - 16 700 W: up to 8 supervised poles, additional 19 with a top enclosure
 - 24 000 - 50 000 W: up to 30 supervised poles
- Remote Meter Panel

• Specifications

- Input 120/208 or 277/480 VAC 3-Phase 4 Wire Wye Configuration
- Output 120/208 or 277/480 VAC 3-Phase Wye Or Delta Configuration
- Output Load Power Factor .5 Lag to .5 Lead
- LED, Electronic & Magnetic Ballast Compatible
- Output Distortion Less Than 3% THD For Linear Loads
- Generator Compatibility
- Forced Air Cooling Only During Emergency Operation; No Filters Required
- 30, 60, and 120 Minute Runtime available (90 minute certification pending)
- Inverter Operating Temperature 0°C to 40 °C
- Battery Operating Temperature 20°C to 30°C

• Approvals

- cUL to CSA 22.2 #141-15



System Display Functions

The SNJ is the third generation of IGBTbased inverter technology and is compatible with any type of lighting load including incandescent, fluorescent, HID, quartz, LED, or halogen. It features a rock solid design with 2x ratings of all critical components and will work with lighting loads at cold starts for all normally off circuits or regular normally on circuits. The LVD disconnect for long power outages eliminates battery drain. Additionally, the SNJ Series eliminates the maintenance costs of individual testing of unit equipment and battery powered ballasts. All tests and diagnostics are performed and recorded automatically.



Meter Functions

- AC Voltage Input
- AC Voltage Output
- AC Current Output
- Battery Voltage
- System Days
- Battery Current
- VA Output
- Inverter Watts
- Ambient Temperature
- Inverter Minutes

Program Functions

- Date
- Time
- Month Test Date / Time
- Yearly Test Date / Time
- Load Fault Reduction Setting
- Low Battery Alarm
- Near Low Battery Alarm
- Low AC Voltage Alarm
- High AC Voltage Alarm
- Ambient Temperature Alarm

Control Functions

- Test Log & Event Log
- 75 Logs Stored
- Date, Time, Duration
- Output Voltage
- Output Current
- Ambient Temperature
- Alarms Preset
- Alarm Log
- 75 Logs Stored
- Date, Time, Alarm Type
- Test
- Buzzer On / Off

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

ORDERING GUIDE

Series	Voltage Input-Output	Capacity Rating (W)*	Battery Type	Output Breakers ¹				Options	
				Output	Voltage/Poles	Amp Rating	Quantity ²		
SNJ30	AB-AB - 120/208 Input; 120/208 Output	4 800 6 000	S - Standard	O - Normally On F - Normally Off	A - 120V 1-Pole	10	T01 - T30	Standard Features	
SNJ60	EK-EK - 277/480 Input; 277/480 Output	8 000			B - 208V 2-Poles	16		C - Status Monitoring Contacts Dry Form C	
SNJ90		10 000			C - 240V 2-Poles	20		DT - Drip Top (NEMA 2)	
SNJ120	HS-HS - 347/600 Input; 347/600 Output	12 500			E - 277V 1-Pole	25		Optional Features	
		16 700			AB - 120/208V 3-Poles	32		BBM - Internal Maintenance Bypass (Break-Before-Make)	
		24 000			AK - 277/480V 3-Poles	40		BL - Circuit Breaker Lock(s)	
		33 000			H - 347V	50		BTM - Battery Temperature Monitor	
		40 000			K - 480V 2-Poles	63		BTM - Battery Temperature Monitor	
	50 000							EMBP - External Maintenance Bypass (Make-Before-Break)	
								F - Fast Charge	
					I - Inverter On Dry Form C Contacts				
					L - Load Control Interface (Dimmer / Switch Bypass)				
					MBB - Internal Maintenance Bypass (Make-Before-Break)				
					O - Output Transfer Delay				
					P - Remote Status Panel (Requires Option C)				
					R - Remote Meter Panel				
					RA - Remote Summary Alarm Panel				
					S - Summary Dry Form C Contacts				
					SM - Seismic Bracing/Mounting				
					PICK 1				
					BIP - BACnet IP				
					IOT - IoT Inverter Cloud Connect				
					MIP - Modbus TCP/IP				

¹ Output breakers are optional

² Maximum out breakers available:

4 800-16 700W: 8 supervised or 30 supervised with a top enclosure

2 400-50 000W: 20 supervised

347V : 14 supervised

* Capacity changes with runtime. See table page 5 for actual capacity rating.

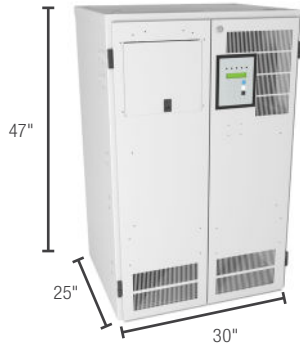
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OPTION TABLE

Option Code	Option Name	Description
BBM	Internal Maintenance Bypass (Break-Before-Make)	Toggle switch designed to disconnect inverter from electrical system for maintenance (Break Before Make)
BIP	BACnet IP	"MSTP" allow upload of FMP data via RS232 intermediate device. This info can then be downloaded to customer device. Allows direct communication via IP
BL	Output Circuit Breaker lock(s)	Allows customer to lock the output circuit breaker in on or off position
BTM	Battery Temperature Monitor	1. Warning alarm: warns when battery temperature is getting too high. 2. Absolute alarm: when temperature reaches high temp this shuts down the string of batteries where the hot battery is.
C	Status Monitoring Contacts	5 form C dry contacts: 1. System in Bypass 2. Summary Alarm: any alarm in the FMP 3. Output trip alarm 4. Utility failure 5. Inverter on
DT	Drip Top (NEMA 2)	Metal piece designed to direct falling water away from the unit
EMBP	External Maintenance bypass switch	Maintenance bypass switch mounted external to the system. Cannot use with output circuit breakers
F	Fast Charge	Allows the system to recharge in 12 hours from LVD
I	Inverter on Dry Form C Contact	Form C dry contact which opens when inverter is on
IOT	IOT inverter Connect Cloud communication	System using the Cloud to allow monitoring of multiple systems in one location
L	Load Control Relay (Line Voltage Dimmer or Switch Bypass)	Equal to an LVS EPC-2-D
MBB	Internal Maintenance Bypass Make Before Break	Toggle switch designed to disconnect inverter from electrical system for maintenance (Make Before Break)
MIP	Modbus TCP/IP	"MSTP" allow upload of FMP data via RS232 intermediate device. This info can then be downloaded to customer device. Allows direct communication via IP
O	Output Transfer Delay	Device designed to delay transfer from 1-6 seconds. Used when control system cannot detect the fast transfer
P	Remote Status Panel (Status alarms, Requires C Option)	Single gang box showing status of alarms, requires C option
R	Remote Meter Panel	Full size meter panel mounted remotely in a NEMA 1 enclosure
RA	Remote Summary Alarm Panel	LED indicator and Sound alert
S	Summary Fault Form C contacts	Relay contact showing any alarm
SM	Seismic Mounting	Instructions and hardware for mounting system in standard seismic applications
T	Output Trip Alarm	Alarms when any output circuit breaker is tripped

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DIMENSIONS



Power Rating (kW)	Voltage IN-OUT (VAC)	Electronics Cabinet Dimensions				Batteries			Battery Cabinet Dimensions			Total System Weight
		Width (in)	Height (in)	Depth (in)	Weight (lbs)	No. of Batteries	Weight (lbs)	Width (in)	Height (in)	Depth (in)	Weight (lbs)	
30 min.	120/208 or 277/480 347/600	30	47	25	535	12	437	17.5	62	25	285	1 257
			69		725							1 447
4.8	120/208 or 277/480 347/600	30	47	25	535	15	546	17.5	62	25	285	1 366
			69		725							1 556
6	120/208 or 277/480 347/600	30	47	25	535	20	728	17.5	62	25	285	1 548
			69		725							1 738
8	120/208 or 277/480 347/600	30	47	25	535	12	860	22.75	77	25	375	1 874
			69		851							2 086
10	120/208 or 277/480 347/600	30	47	25	639	15	1 076	22.75	77	25	375	2 090
			69		873							2 324
12.5	120/208 or 277/480 347/600	30	47	25	639	20	1 434	22.75	77	25	375	2 448
			69		873							2 682
16.7	120/208 or 277/480 347/600	30	47	25	639	40	2 868	48	72	31	650	4 768
			69		1 547							5 065
24	120/208 or 277/480 347/600	44	72	31	1 250	40	2 868	48	72	31	650	4 768
		74			1 585							5 103
33	120/208 or 277/480 347/600	44	72	31	1 460	60	4 302	48	72	31	700	6 462
		74			1 827							6 829
40	120/208 or 277/480 347/600	44	72	31	1 460	60	4 302	48	72	31	700	6 462
		74			1 827							6 829
50	120/208 or 277/480 347/600	44	72	31	1 460	60	4 302	48	72	31	700	6 462
		74			1 827							6 829

Power Rating (kW)			Voltage IN-OUT (VAC)	Electronics Cabinet Dimensions				Batteries			Battery Cabinet Dimensions			Total System Weight
60 min.	90 min.	120 min.		Width (in)	Height (in)	Depth (in)	Weight (lbs)	No. of Batteries	Weight (lbs)	Width (in)	Height (in)	Depth (in)	Weight (lbs)	
4.8	4.44	4.08	120/208 or 277/480	30	47	25	535	12	860	30	47	25	210	1 605
			347/600		69		725							1 795
6	5.55	5.1	120/208 or 277/480	30	47	25	535	15	1 076	30	47	25	210	1 821
			347/600		69		725							2 011
8	7.4	6.8	120/208 or 277/480	30	47	25	535	20	1 434	30	47	25	232	2 201
			347/600		69		725							2 391
10	9.25	8.5	120/208 or 277/480	30	47	25	639	24	1 721	30	47	25	232	2 592
			347/600		69		851							2 804
12.5	11.6	10.6	120/208 or 277/480	30	47	25	639	30	2 151	60	47	25	420	3 210
			347/600		69		873							3 444
16.7	15.4	14.2	120/208 or 277/480	30	47	25	639	40	2 868	60	47	25	464	3 971
			347/600		69		873							4 205
24	22.2	20.4	120/208 or 277/480	44	72	31	1 250	60	4 302	48	72	31	700	6 252
			347/600	74			1 547							6 549
33	30.5	28.1	120/208 or 277/480	44	72	31	1 250	80	5 736	96	72	31	1 300	8 286
			347/600	74			1 585							8 621
40	37	34	120/208 or 277/480	44	72	31	1 460	100	7 170	96	72	31	1 300	9 930
			347/600	74			1 827							10 297
50	46.3	42.5	120/208 or 277/480	44	72	31	1 460	120	8 604	96	72	31	1 400	11 464
			347/600	74			1 827							11 831

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HEAT LOSS TABLE

30 Minute Run Time		60 Minute Run Time		90 Minute Run Time		120 Minute Run Time	
Ouput Rating (kW)	Heat Loss (BTU/h)	Ouput Rating (kW)	Heat Loss (BTU/h)	Ouput Rating (kW)	Heat Loss (BTU/h)	Ouput Rating (kW)	Heat Loss (BTU/h)
4.8	327	4.8	327	4.44	303	4.08	278
6.0	409	6.0	409	5.55	379	5.10	348
8.0	546	8.0	546	7.40	505	6.80	464
10.0	682	10.0	682	9.25	631	8.50	580
12.5	853	12.5	853	11.6	789	10.6	725
16.7	1 139	16.7	1 139	15.4	1 054	14.2	968
24.0	1 637	24.0	1 637	22.2	1 514	20.4	1 391
33.0	2 251	33.0	2 251	30.5	2 082	28.1	1 913
40.0	2 728	40.0	2 728	37.0	2 523	34.0	2 319
50.0	3 410	50.0	3 410	46.3	3 154	42.5	2 899

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