



## SIC DC-AC INVERTER

SiC Full Bridge DC-AC Inverter Assembly rated at 60 amps and 1200 volts. This customer ready high power design provides the following evaluation options.

- Use as is off the shelf
- IPPS can adjust components for optimal specific application performance
- IPPS can modify PCB designs to customer specific circuit
- IPPS can rescale the design for higher or lower power capability
- Compatible high efficiency PFC front-end available
- Suitable for rack mount applications



**30 KW Nominal  
Output Power**

---

**100 kHz Switching  
Frequency**

---

**800 V<sub>MAX</sub> Input  
Voltage**

---

**Adjustable Dead-  
Time Control and  
DeSat detection**

---

**Customizable for  
specific  
applications**

**INNOVATION PLUS  
POWER SYSTEMS USA**

3960 Commerce Drive  
St. Charles, IL 60174  
630-457-1105

[www.innovationplususa.com](http://www.innovationplususa.com)

### Product Specification

$I_{RMS}$	60 A
$V_{CES}$	1200 V
$F_{SW}$ , Maximum Switching Frequency	100 kHz
$V_{DC}$ , Maximum Capacitor input voltage	800 V
Bias Supply $V_{DC}$ Input	9 – 36 V
Bias Supply $P_{Max}$	100 W
$T_A$ , Ambient Temperature Range	-20 to 50 °C
Cooling	Forced Convection
Weight	12 lbs
Size, (Height x Width x Length)	4-3/4" x 10" x 12-3/4"

### Product Specification

### Customer Interface Data

- ❖ Output Current and DC Link Voltage monitoring
- ❖ Temperature monitoring for each SiC module
- ❖ Output Terminals 1/4" Ring Lug Compatible
- ❖ Input Terminals 1/4" Ring Lug Compatible
- ❖ Bias Supply Input DC Positive & Negative #8/M4 Ring Lug

### Signal I/O

- ❖ Connector 20 Pin, 3M N3428-6202RB
- ❖ Digital Inputs:
  - Drive – Phase A Upper, Phase A Lower, Phase B Upper, Phase B Lower
  - Fan Off Control
  - Fault Reset
- ❖ Digital Outputs:
  - Fault All Status
  - Ready Status
- ❖ Analog Outputs:
  - Current
  - Voltage
  - SiC Module Temperature A & B