

Technical Specification

Item		Description
Method	Main circuit	IGBT PWM Inverter
	Cooling method	Natural cooling, Forced air cooling, Forced water cooling
Input	Rated Voltage	750Vdc ~1500Vdc 400Vac ~1600Vac
Output	Rated capacity	AC 15kVA ~ 250kVA(with DC output) DC 5kW ~ 30kW(Diode or Thyristor)
	Overload	100%(Continuous), 150%(1 min)
	Rated voltage	200Vac ~ 440Vac, 3-Phase 4 wires
	Frequency	50Hz or 60Hz $\pm 1\%$
	Voltage distortion	Less than 3%
	Efficiency	90% or more
	Control voltage	100Vdc(70V ~ 110Vdc)
	Noise	Less than 70dB(around 1m)
Ambient temperature		- 35°C ~ 45°C
Communication		RS-485 Asynchronous



**"Woojin Industrial Systems Co., Ltd.
produces the best customized product."**

Static Inverter

WOOJIN Industrial Systems designs, develops and manufactures proprietary auxiliary power system for direct current and alternating current.

System Summary



Type and Standard Specification

WIS (a) (b) (c) - (d) S

(a)	Symbol	Input voltage
	1	DC
	2	AC
(b)	Symbol	Chopper unit
	0	Not use
	1	Use
(c)	Symbol	Inverter
	2	2Level
	3	3Level
(d)	Symbol	Rated
	Capacity	15kVA~250kVA

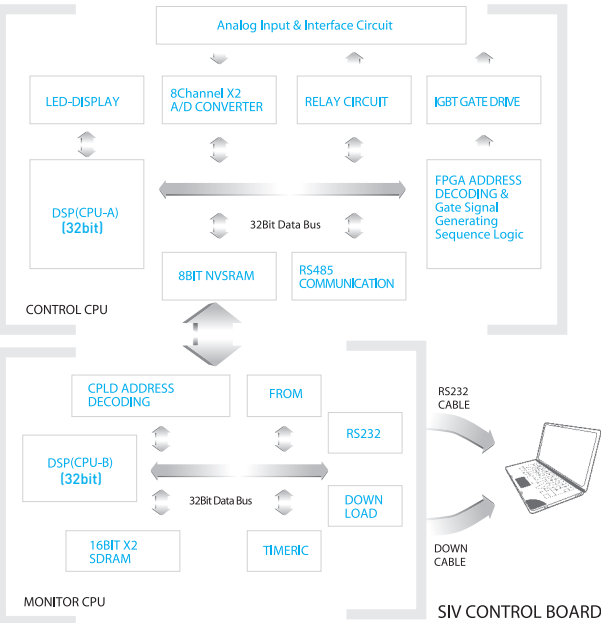
3 Phase Inverter Unit

3 phase inverter unit is composed by 6 units of IGBT and 3 units of IGBT Gate Driver with feedback function.



Main Control Unit

The main controller of SIV is composed of Control CPU and Monitor CPU in 1 PCB.

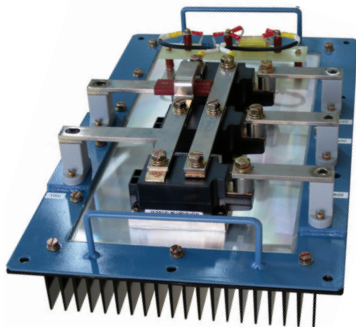


Cooling System

Cooling method : Natural cooling
Cooling equipment : Heat pipe
Liquid ingredient : Water

Battery Charger

Battery Charger includes 3 phase bridge rectifier circuit (using the dual diodes or Thyristor).
Capacity : 3~30kW



SIV Main Circuit Composition

