

# DAWONSYS Co.,Ltd

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major business	Power supply of Nuclear fusion&Accelerator, Plasma system&Industrial rectifier, Railway Vehicle Etc.		

DAWONSYS is a company specialized in the manufacture and technology of nuclear fusion and accelerator, Plasma system, Industrial rectifier and Railway Vehicle in Korea.

## Products



NBI&ECH power supply system

**Use** high-voltage power supply for injection and heating plasma

**Description** It consists of a power supply and control system that supplies DC high voltage and current of Maximum 120kV, 70A to NBI ion source and Gyrotron



AC-DC Converter system

**Use** A power converter that supplies a large current to the superconducting coil

**Description** Max. 68kA AC-DC Converter system and control system



In-vessel Control Coil Power Supply

**Use** High-frequency power supply system for plasma stability

**Description** Consists of a power supply and control system with 10 kHz high-frequency for stable current supply and quick response to IVCC(In-Vessel Control Coil)

## Technical Capacity

### » High voltage&Large current Tech

High voltage: PSM(Pulse Step Modulator) type&Each duty control(Possible for Fine voltage control)  
 Large current: Parallel SCR control&Analysis(Structural, Electromagnetic field, Thermal Etc.)

### » High precision power Tech

Output stability  $\pm 10\text{ppm}$  completion(PLS-II @ 1,000A)  
 Delivery for PAL XFEL, PLS-II, KBSI, IBS, KIRAMS Etc

### » Pulse Power Tech

PFN(Pulse Forming Network) type, Marx type, Hard tube type Design  
 Adjustable Pulse Width&Frequency, Inverter power supply for large capacity capacitor charging(XFEL, PLS-II Etc.)