

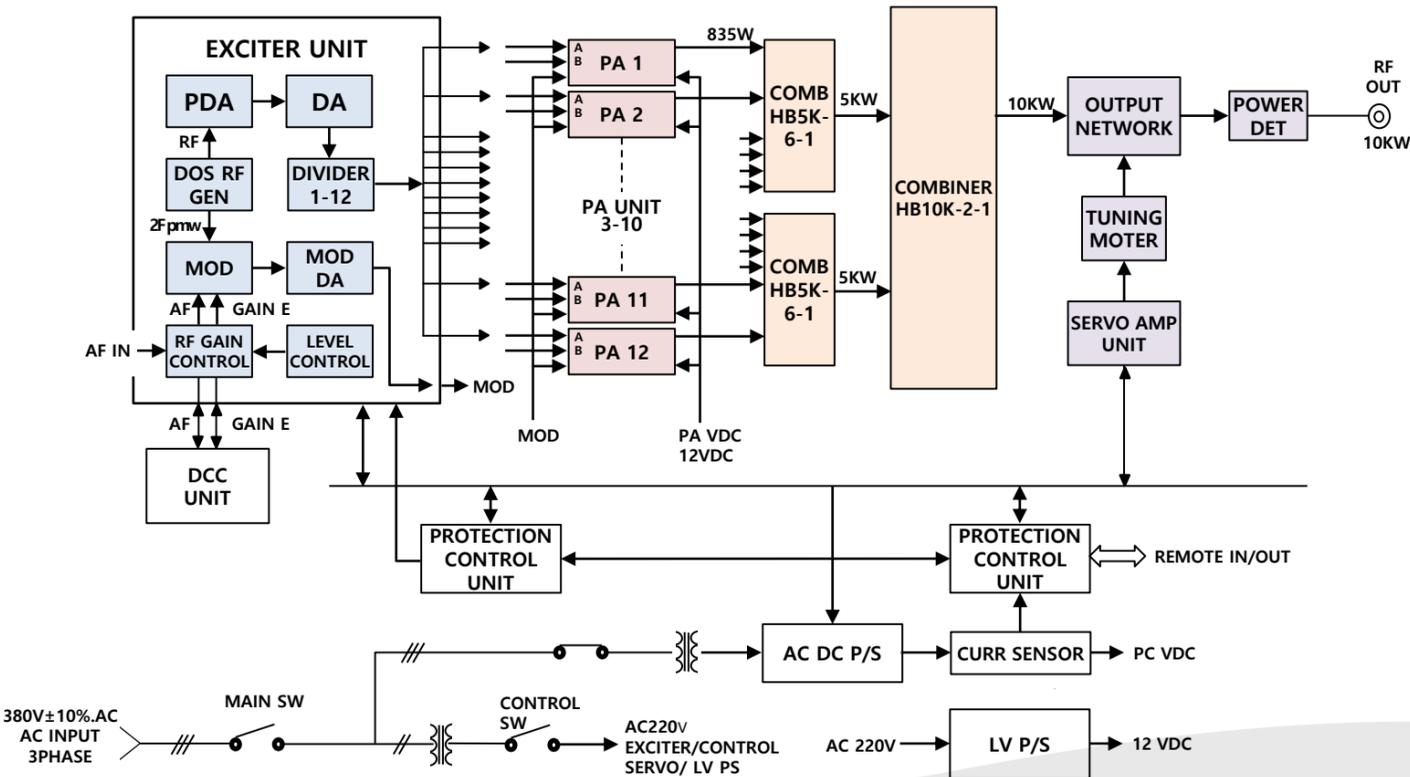


ISO-9001

SW 10KW BROADCASTING TRANSMITTER

SOLID STATE

HB-10KS Block Diagram



[Model: HB-10KS]

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General Information

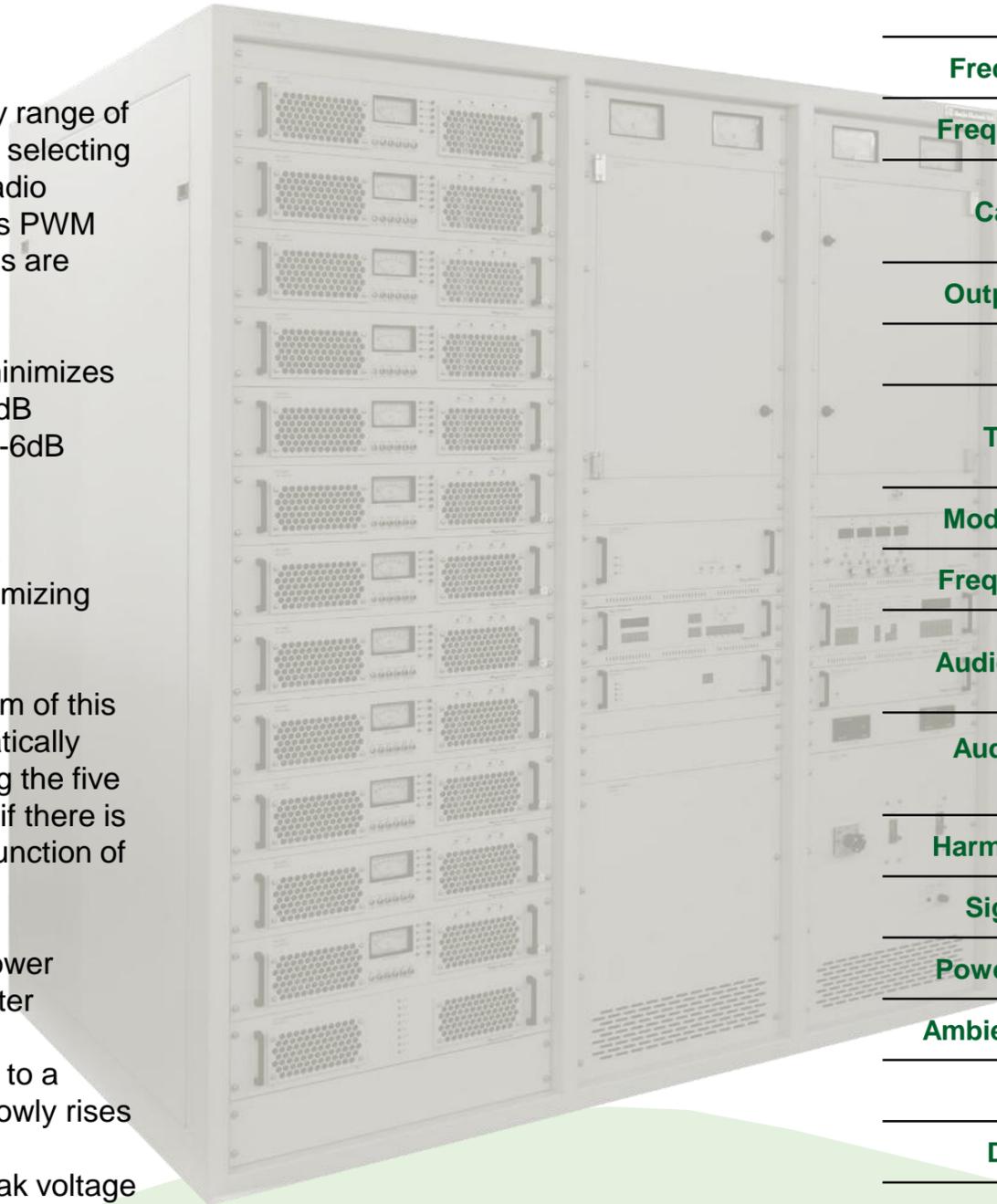
This HB-10KS type broadcasting shortwave 10KW transmitter is composed of full semiconductors, After storing up to 100 frequencies in the frequency range of 2.3 MHz to 12 MHz at 100 Hz frequency steps and selecting one of them, it automatically tunes and transmits radio waves within 10 seconds, the modulation method is PWM (Pulse Width Modulation), and two operating modes are available : A3E and DCC.

DCC (Dynamic Carrier Control) is a function that minimizes power consumption and has three types: AMC1(-2dB attenuation), AMC2(-3dB attenuation), and AMC3 (-6dB attenuation), When you select one of them, the carrier power is automatically reduced by up to -2dB, -3dB, or -6dB depending on the size of the modulation level, minimizing power consumption.

When installing the Time Scheduler, an optional item of this transmitter, the corresponding frequency is automatically replaced depending on the day or night time among the five frequencies deposited by the Time Scheduler, and if there is a day or nighttime antenna, it is a device with the function of even replacing the antenna.

Another feature of this transmitter is that the DC power supply supplied to the PA and MOD of the transmitter operates in Soft Start.

Soft Start is a function that rises at a normal speed to a certain voltage when the power is turned on and slowly rises when the target point is near. Therefore, when the Soft Start function is used, peak voltage does not occur, minimizing semiconductor damage caused by peak voltage.



Technical Specification

Frequency Range	2.3 ~ 12MHz, 100Hz Steps
Frequency Channel	100 Channels
Carrier Power	10KW (When A3E mode)
Output Impedance	50ohm, 1-5/8" EIA Flange
VSWR	less than 3:1 at maximum power
Tuning Time	within 10 Seconds
Mode of Operation	A3E, DCC
Frequency Stability	within 10Hz
Audio Input Signals	-20dBm ~ +10dBm , 600ohm balance
Audio Frequency Response	±2dB at 50Hz ~10KHz
Harmonic Distortion	less than 4%
Signal to Noise	less than -55dB
Power Requirement	200V to 500Vac, 3phase, 50/60Hz
Ambient Temperature	-10℃ ~ + 50℃
Humidity	less than 95% at 40℃
Dimensions	1804(W) X 2000(H) X 1200(D)