iGen Specification

문서 제목	iGen Specifications iGen1303N-R1
문서 번호	100-G1303N-R1-1612
적용 품번	100-iGen1303N-R1
Rev No.	0.1

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이 문서는 ㈜플라소스의 RF Generator 제품 iGen1303N series에 대한
사양 자료입니다. 이 문서 및 문서에 포함된 내용은 예고 없이 변경될 수 있습니다.
iGen1303N series는 13.56MHz, 최대 300W의 RF 전력을 발생시키는 장비입니다.

문서 이력

Rev No.	날짜	변경 내용
0.0	2016. 12. 08.	개정판 발행
0.1	2016.12.27.	1. '**2. Electrical Specifications**' Phase Shift Description 추가

1. Physical Specifications

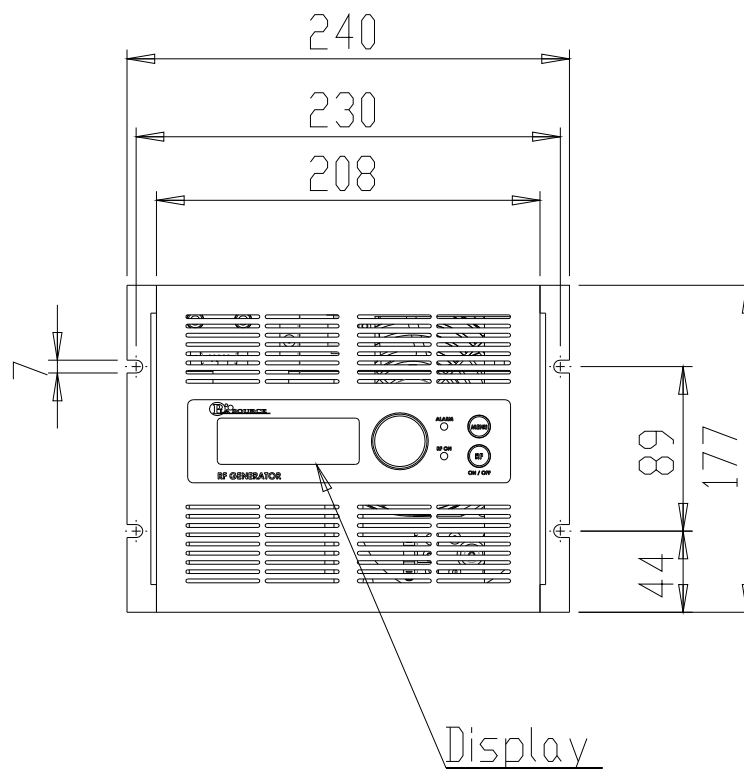| Size	208mm(W) x 177mm(H) x 423mm(D)
	Dimensions for case only (not including connectors, fans, or brackets)
Weight	Approx. 7.5kg
Case	Aluminum (clear chromate finish)
RF Output Connector	N-TYPE(female)
Mains Input Connector	Compatible with IEC-60320
Serial interface	RS232 (DSUB-9Pin-female) 19,200bps
Analog interface	Analog (DSUB-15Pin-female)
CEX Input/Output	BNC-Connector (female)

➢ Dimensions;
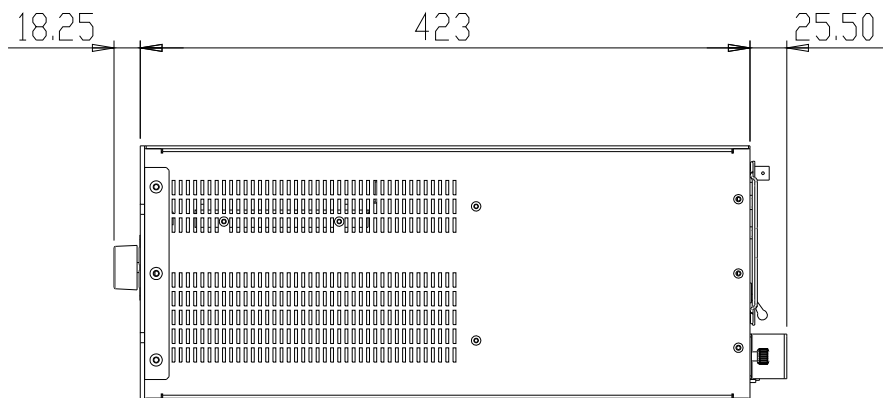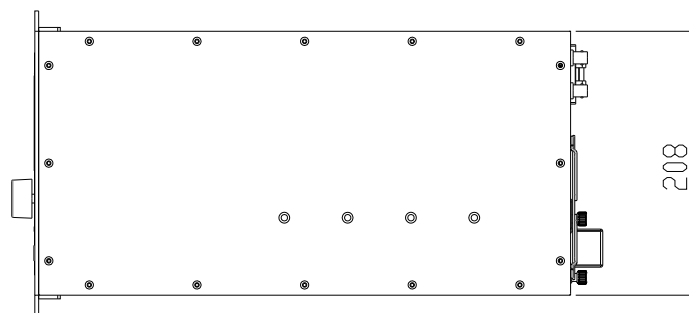 모든 치수는 밀리미터(mm) 기준입니다.

Fig. 1 Front view

18.25　　　　　423　　　　　25.50

Fig. 2 Side view

208

Fig. 3 Top view

CEX Input/Output

RS232 Interface

Analog Interface

AC "On" Switch

AC Input

31

37

RF OUTPUT
"N"-TYPE (F)

Case GND
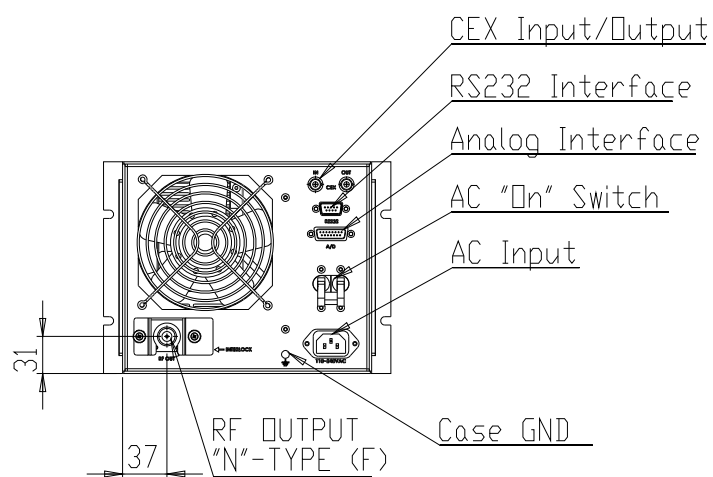
Fig. 4 Rear view

2. Electrical Specifications

AC Input Power	1Φ x 100VAC~240VAC ,50-60[Hz]10A
Power Consumption	Nominal 732W
Serial communication	Standard RS-232, full duplex
Interlock	Normal open Switch closes when RF Out cover and Top cover,
CEX Input	TTL, Coaxial-BNC(Female) 180 Degree Phase shift of CEX Output
CEX Output	TTL, Coaxial-BNC(Female)

3. Performance Specifications

RF frequency	13.56MHz ±0.005%
Harmonics	<50dBc (50Ω load)
Rated Output Power	300W into 50 Ω load
Max. Reflect Power	Max. 30W

4. Interface Specifications

Analog Interface 15Pin Assign

Connector   15Pin D-subminiature female

Pin No.	Signal Name	Description
1	Analog Remote Enable	If This Pin is connected to 'Analog I/F GND' , Analog Remote mode is enabled
2	Analog RF ON Enable	If This Pin is connected to 'Analog I/F GND' , Analog RF ON is enabled connect this pin to 'Analog IF GND', when analog remote mode is enabled
3	Analog External ON	If This Pin is connected to 'Analog I/F GND' , Analog External RF status is ON A input to turn RF power ON and OFF, when Analog Remote mode
4	External Interlock	If This Pin is connected to 'Analog I/F GND' , External Interlock is disabled If External Interlock is enabled, RF Generator is disabled
5	Forward Power Readback	This Voltage is calibrated to 10V/Max Power
6	Reflect Power Readback	This Voltage is calibrated to 10V/Max Power
7	Analog Power Set	This Voltage is calibrated to 10V/Max Power
8	N.C.	
9	Analog IF GND	Analog GND for Pin 1, 2, 3, 4, 10, 11
10	RF OFF Output	If RF Power status is ON, This Pin is connected to Analog I/F GND This pin Max Current is **10mA**
11	Fault OFF Output	If RF Generator Fault status is ON, This Pin is connected to 'Analog I/F GND' This pin max current is **10mA**
12	Analog IF GND	Analog GND for Pin 1, 2, 3, 4, 10, 11
13	Analog IF GND	Analog Ground for Pin 5
14	Analog IF GND	Analog Ground for Pin 6
15	Analog IF GND	Analog Ground for Pin 7

Pin 9,12,13,14,15 are same pins and this pins are connected to chassis

Serial Interface 9Pin Assign

Connector   9Pin D-subminiature female

Pin No.	Signal Name	Description
1	Not connected	Reserved
2	RS-232C TXD	RS-232C Transmission Data Output
3	RS-232C RXD	RS-232C Receive Data Input
4	Not connected	Reserved
5	RS-232C GND	RS-232C Signal Ground
6	Not connected	Reserved
7	Not connected	Reserved
8	Not connected	Reserved
9	Not connected	Reserved

➢ Protocol   사용자 매뉴얼을 참조하십시오.

5. Environment Specifications

Ambient temperature	Operating: 10℃ ~ +35℃
Cooling	170CFM (1 fan)