

## rf/microwave instrumentation

Model SSISOC200V10K18G ISO 11452-2 and ISO 11452-5 AR Standard System 10 kHz to 18 GHz 200 V/m CW at 1 Meter Test Distance

The SSISOC200V10K18G System is designed to develop a 200 V/m field level at a 1m test distance for ISO 11452-2 and ISO 11452-5 testing from 10 kHz to 18 GHz. The signal generation, control, and power monitoring equipment shall be mounted in a ventilated equipment rack along with the RF amplifiers.

The SSISOC200V10K18G AR System consists of the AR equipment, listed herein. Please refer to individual product specification sheets for details. The export classification for this equipment is 3A001. This equipment is controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

AR Standardized Systems are customizable upon request. Contact AR for all such requests.

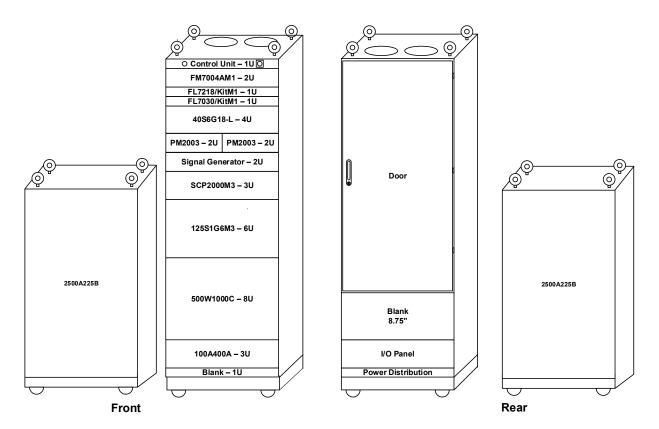
Parameter	Description
System Frequency Range	10 kHz–18 GHz
CW Field Strength	200 V/m
Test Distance	1 meter
	Five (5) RF amplifiers were chosen for this test system: Model 100A400A: 10 kHz–400 MHz, 100 Watts
	Model 2500A225B: 10 kHz–225 MHz, 2500 Watts
	Model 500W1000C: 80–1000 MHz, 500 Watts
	Model 125S1G6: 1–6 GHz, 125 Watts
Amplifier Configuration	Model 40S6G18-L: 6–18 GHz, 40 Watts
	Dedicated antennas for each amp to provide optimal field generation:
	Stripline Antenna, DC–1000 MHz (Schwarzbeck TEMZ 5232 or equivalent)
	Antenna, 25–100 MHz, 3000W CW (TDK HPBR-2510)
	Model ATR80M6G, Log Periodic Antenna, 80 MHz–6 GHz
	Model ATH800M6G, Horn Antenna, 1–6 GHz
Antenna Configuration	Model ATH6G18, Horn Antenna, 6–18 GHz
RF Cable Configuration	Two sets (one for each amp/antenna) consisting of 2 and 5 meter lengths and designated bulkhead feedthroughs for each set.
Software Configuration	System and testing will be controlled using emcware software which is preloaded and delivered on a new laptop as part of overall system. Price includes a 1 year support contract.
Software Cornigoration	Self-contained equipment rack with internal pre-wired RF and power with automatic RF
	switching via SCP2000. AC power is filtered and distributed through an internal power
Design approach	distribution unit. All RF equipment input and outputs are on rear-panel of devices.
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Export Classification	3A001

Field strength calculations are based on free-space conditions

Model SSISOC200V80M18G Equipment List  Component		
·	Quantity 1	
Model 100A400A-R-N-R-N-NE-R-U, RF Amplifier, 10 kHz-400 MHz, 100 Watts		
Model 2500A225B-R-N-R-716-SPR-XX, RF Amplifier, 10 kHz–225 MHz, 2500 Watts  Model 500W1000C-R-N-R-N-NSP-NE, RF Amplifier, 80 MHz–1 GHz, 500 Watts CW		
Model 125S1G6M3, RF Amplifier, 1–6 GHz, 125 Watts CW		
Model 40S6G18-L-R-N-R-N-NE-U, RF Amplifier, 6–18 GHz, 40 Watts CW		
Model DC3400A, Dual Directional Coupler, 10 kHz–400 MHz, 250 Watt		
Model DC6180A, Dual Directional Coupler, 80 MHz–1 GHz, 600 Watts		
Model DC7205A, Dual Directional Coupler, 700 MHz–6 GHz, 250 Watts		
Model DC7435A, Dual Directional Coupler, 6–18 GHz, 200 Watts		
Stripline Antenna, DC-1000 MHz (Schwarzbeck TEMZ 5232 or equivalent)		
Antenna, 25–100 MHz, 3000W CW (TDK HPBR-2510)		
Model ATR80M6GM2, Log Periodic Antenna, 80 MHz – 6 GHz, 5000W CW		
Model ATH800M6G, Horn Antenna, 1–6 GHz, 1500W CW	1	
Model ATH6G18, Horn Antenna, 6–18 GHz, 650W CW		
Model AD1502, Adapter, WRD-650 to N (female)		
Model TP1000B, Non-metallic Tripod		
Model SCP2000M3, System Controller, DC-18 GHz		
Signal Generator, 9 kHz–20 GHz (Keysight N5173B-520 with options -1EM, -UNT, -UNW, -1E1, -UK6, -1CM110A)		
Model PM2003, Power Meter, 3 channels		
Model PH2000A, Power Head, 10 kHz–8 GHz, -50 to +20dBm		
Model PH2005, Power Head, 500 kHz–18 GHz, -70 to +20dBm	2	
Model FM7004AM1, Field Monitor	1	
Model FL7030/KitM1, Field Probe, 5 kHz–30 MHz, 2–1000V/m	1	
Model FL7218/KitM1, Field Probe, 2 MHz–18 GHz, 2–1000V/m		
Model PS2000B, Probe Stand, Non-Conductive		
Model CC11111020, Coaxial Cable, DC-18 GHz, N connectors, 2m long		
Model CC11111050, Coaxial Cable, DC-18 GHz, N connectors, 5m long		
All internal Interconnect cables between system components		
Test System Control PC		
Model emcware® 5.0, Radiated Susceptibility, Conducted Immunity, and Emissions Test Software*		
emcware® 5.0, 1-year support contract*	1	

<sup>\*</sup>Model emcware\* 5.0 and service contract to be quoted as separate line items and are therefore not included in the price of the system

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## **Rack Physical Specifications:**

Power Input .......240VAC, 1-phase, 30 Amps

## Amplifier Physical Specifications (2500A225B)

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