



**Model SSISOC200V80M18G**  
**ISO 11452-2**  
**AR Standard System**  
**80 MHz to 18 GHz**  
**200 V/m CW at 1 Meter Test Distance**

The SSISOC200V80M18G System is designed to develop a 200 V/m field level at a 1m test distance for ISO 11452-2 testing from 80 MHz to 18 GHz. The signal generation, control, and power monitoring equipment shall be mounted in a ventilated equipment rack along with the RF amplifiers.

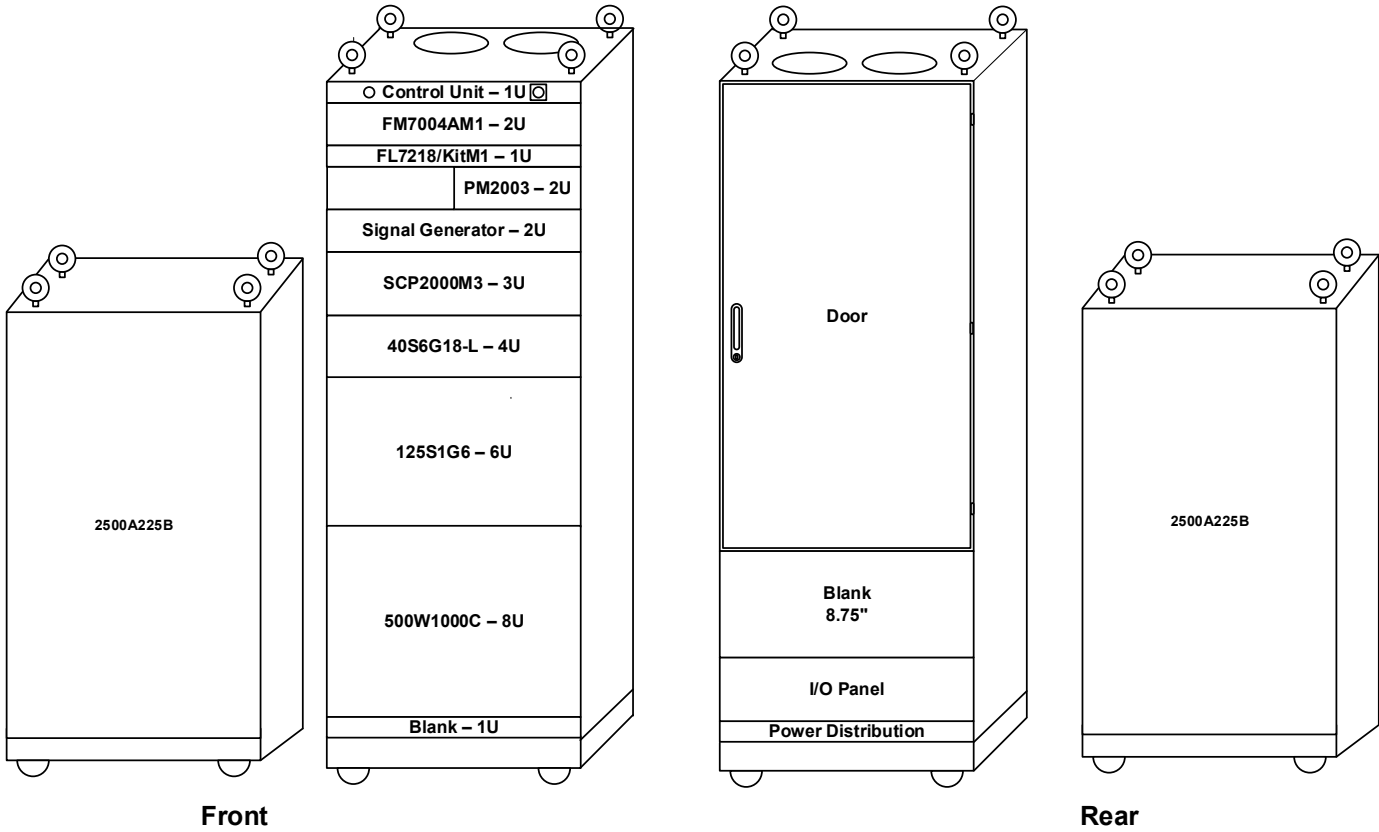
The SSISOC200V80M18G AR System consists of the AR equipment, listed herein. Please refer to individual product specification sheets for details. The export classification for this equipment is 3A001. This equipment is controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

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

Summary Requirements	
Parameter	Description
System Frequency Range	80 MHz–18 GHz
CW Field Strength	200 V/m
Test Distance	1 meter
Amplifier Configuration	Four (4) RF amplifiers were chosen for this test system: Model 2500A225B: 10 kHz–225 MHz, 2500 Watts Model 500W1000C: 80–1000 MHz, 500 Watts Model 125S1G6: 1–6 GHz, 125 Watts Model 40S6G18-L: 6–18 GHz, 40 Watts
Antenna Configuration	Dedicated antennas for each amp to provide optimal field generation: Model ATR80M6G, Log Periodic Antenna, 80 MHz–6 GHz Model ATH800M6G, Horn Antenna, 1–6 GHz 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.
Design approach	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 distribution unit. All RF equipment input and outputs are on rear-panel of devices.
Installation, Site Acceptance Testing (SAT) and Training	One week of installation, SAT and Training will be provided by AR Systems Engineers
Export Classification	3A001
Assumptions: 3 dB power margin on amplifiers to accommodate reasonable chamber and system losses Field strength calculations are based on free-space conditions	

<b>Model SSISOC200V80M18G Equipment List</b>	
<b>Component</b>	<b>Quantity</b>
Model 2500A225B-R-N-R-716-SPR-XX, RF Amplifier, 10 kHz–225 MHz, 2500 Watts	1
Model 500W1000C-R-N-R-N-NSP-NE, RF Amplifier, 80 MHz–1 GHz, 500 Watts CW	1
Model 125S1G6M3, RF Amplifier, 1–6 GHz, 125 Watts CW	1
Model 40S6G18-L-R-N-R-N-NE-U, RF Amplifier, 6–18 GHz, 40 Watts CW	1
Model DC6180A, Dual Directional Coupler, 80 MHz–1 GHz, 600 Watts	1
Model DC7205A, Dual Directional Coupler, 700 MHz–6 GHz, 250 Watts	1
Model DC7435A, Dual Directional Coupler, 6–18 GHz, 200 Watts	1
Model ATR80M6G, Log Periodic Antenna, 80 MHz–6 GHz, 5000W CW	1
Model ATH800M6G, Horn Antenna, 1–6 GHz, 1500W CW	1
Model ATH6G18, Horn Antenna, 6–18 GHz, 650W CW	1
Model AD1502, Adapter, WRD-650 to N (female)	1
Model TP1000B, Non-metallic Tripod	1
Model SCP2000M3, System Controller, DC–18 GHz	1
Signal Generator, 9 kHz–20 GHz (Keysight N5173B-520 with options -1EM, -UNT, -UNW, -1E1, -UK6, -1CM110A)	1
Model PM2003, Power Meter, 3 channels	1
Model PH2005, Power Head, 500 kHz–18 GHz, -70 to +20dBm	2
Model FM7004AM1, Field Monitor	1
Model FL7218/KitM1, Field Probe, 2 MHz–18 GHz, 2-1000V/m	1
Model PS2000B, Probe Stand, Non-Conductive	1
Model CC11111020, Coaxial Cable, DC–18 GHz, N connectors, 2m long	3
Model CC11111050, Coaxial Cable, DC–18 GHz, N connectors, 5m long	3
All internal Interconnect cables between system components	1
Test System Control PC	1
Model emcware® 5.0, Radiated Susceptibility, Conducted Immunity, and Emissions Test Software*	1
emcware® 5.0, 1-year support contract*	1

\*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



**Rack Physical Specifications:**

Size (H x W x D) ..... 150.52 x 56.03 x 82.3 cm (59.26 x 22.06 x 32.4 in)  
 Weight ..... 109 kg (240 lb)  
 Power Input ..... 240VAC, 1-phase, 30 Amps

**Amplifier Physical Specifications (2500A225B)**

Size (H x W x D) ..... 132.1 x 56.1 x 82.4 cm (52.0 x 22.1 x 32.5 in)  
 Weight ..... 159 kg (350 lbs)  
 Power Input ..... 380-415 VAC, 3-phase, 8.5 kW maximum