



**Model SSISOC50V80M18G
ISO 11452-2
AR Standard System
80 MHz to 18 GHz
50 V/m CW at 1 Meter Test Distance**

The SSISOC50V80M18G System is designed to develop a 50 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.

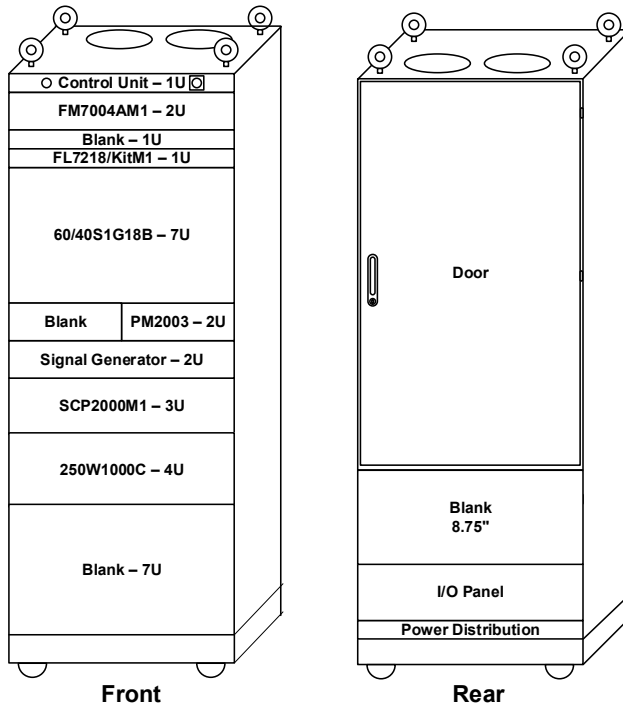
The SSISOC50V80M18G AR System consists of the AR equipment, listed herein. Please refer to individual product specification sheets for details. The export classification for this equipment is 3A001. This equipment is controlled for export in accordance with the U.S. Export Administration Regulations. 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	80MHz-18 GHz
CW Field Strength	50 V/m
Test Distance	1 meter
Amplifier Configuration	Two (2) RF amplifiers were chosen for this test system: Model 250W1000C: 80-1000 MHz, 250 Watts Model 60/40S1G18B: 1-18 GHz, 60/40 Watts
Antenna Configuration	Dedicated antennas for each amp to provide optimal field generation: Model ATR80M6G, Log-periodic Antenna, 80 MHz-6 GHz Model DRH-118, Horn Antenna, 1-18 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
<i>Assumptions: 3 dB power margin on amplifiers to accommodate reasonable chamber and system losses Field strength calculations are based on free-space conditions</i>	

Model SSISOC50V80M18G Equipment List	
Component	Quantity
Model 250W1000CM3, RF Amplifier, 80 MHz–1 GHz, 250 Watts CW	1
Model 60/40S1G18B, RF Amplifier, 1–18 GHz, 60 Watts CW (1–6 GHz), 40 Watts (6–18 GHz) CW	1
Model DC6180A, Dual Directional Coupler, 80 MHz–1 GHz, 600 Watts	1
Model DC7420, Dual Directional Coupler, 800 MHz–18 GHz, 50 Watts	1
Model ATR80M6G, Log-periodic Antenna, 80 MHz–6 GHz, 2000W CW	1
Model DRH-118, Horn Antenna, 1–18 GHz	1
Model TP1000B, Non-metallic Tripod	1
Model SCP2000M1, 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	2
Model CC11111050, Coaxial Cable, DC–18 GHz, N connectors, 5m long	2
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) 132.08 x 56.03 x 82.3 cm (52.00 x 22.06 x 32.4 in)

Weight 109 kg (240 lb)

Power Input 240VAC, 1-phase, 30 Amps