

rf/microwave instrumentation

Model SSISOV200V30M18G
ISO 11451-2 Full Vehicle
AR Standard System
30MHZ-18GHz
200V/m CW, 2 Meter Test Distance

The SSISOV200V30M18G System is designed to generate up to 200 V/m CW at a 2m test distance for ISO 11451-2 full-vehicle testing from 30MHz-18GHz. The signal generation, control, and power monitoring equipment shall be mounted in a ventilated equipment rack along with the RF amplifiers.

The SSISOV200V30M18G 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.

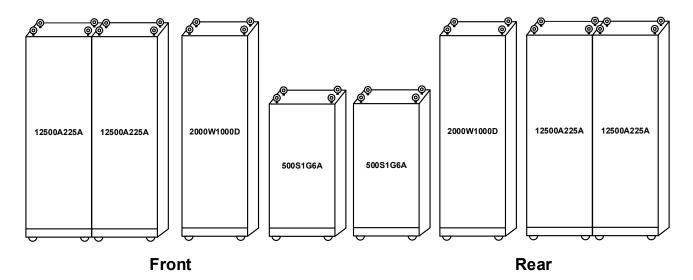
AR Standardized Systems are customizable upon request. Contact AR for all such requests.

Parameter	Description		
System Frequency Range	30MHz–18GHz		
CW Field Strength	200 V/m (200 V/m w/ 80% AM peak conservation per ISO 11451)		
Test Distance	2 meters		
	4 FL7218 Field Probes		
Field Probe Configuration / Uniform Field Area	UFA: 0.5 meters on each side of reference point per ISO 11451-2		
	Four RF amplifiers were chosen for this test system:		
	Model 12500A225A-L: 10kHz – 225MHz, 12500 Watts		
	Model 2000W1000D: 80–1000MHz, 2000 Watts		
	Model 500S1G6A: 1–6GHz, 500 Watts Model 200T4G8: 4–8GHz, 200 Watts		
Amplifier Configuration	Model 250T8G18: 7.5–18GHz, 250 Watts		
	Dedicated antennas for each amp to provide optimal field		
	generation/uniformity:		
	FSA \$12018-21: 30–100MHz	Model ATH800M6G: 800-6000MHz	
	Model ATL80M1G: 80–1000MHz	Model ATH4G8: 4-8GHz	
Antenna Configuration	Model ATH200M1G: 200-1000MHz	Model ATH7G18: 7.5–18GHz	
	Four sets (one for each amp/antenna) consisting of 2 and 8 meter lengths		
RF Cable Configuration	and designated bulkhead feedthroughs for each set.		
	System and testing will be controlled using Nexio BAT-EMC software which is		
	preloaded and delivered on a new PC as part of overall system. Price		
oftware Configuration includes a 1-year support contract.			
	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 equ		unit. All RF equipment input and	
Design approach	outputs are on rear-panel of devices.		
LILLIC COLA L. T. CATALLET	One week of installation, SAT and Training will be provided by AR Systems		
Installation, Site Acceptance Testing (SAT) and Training	Engineers		
Export Classification Assumptions:	3A001		

³ dB power margin on amplifiers to accommodate reasonable chamber and system losses Field strength calculations are based on free-space conditions

Equipment list	
Component	Quantity
Model 12500A225A-L, Amplifier, 10kHz-225MHz, 12500 Watts CW	1
Model 2000W1000DM1, Amplifier, 80–1000MHz, 2000 Watts CW	1
Model 500S1G6A, Amplifier, 0.7–6GHz, 500 Watts CW	1
Model 200T4G8M3, Amplifier, 4-8GHz, 200 Watts CW	1
Model 250T8G18M2, Amplifier, 7.5-18GHz, 250 Watts CW	1
Model DC4256, Dual Directional Coupler, 10kHz-250MHz, 13000 Watts CW	1
Model DC6380, Dual Directional Coupler, 80–1000MHz, 3000 Watts CW	1
Model DC7215A, Dual Directional Coupler, 0.7–6GHz, 750 Watts CW	1
Model DC7352A, Dual Directional Coupler, 4-8GHz, 600 Watts CW	1
Model DC7450M1, Dual Directional Coupler, 7.5-18GHz, 3000 Watts CW	1
Model AD1003, Waveguide Adapter, WRD-750-D24 to N, End Launch, 500 Watts CW	1
Model SCP2000M3, System Controller, DC–18GHz	1
Model PM2003, Power Meter, 3 channels	1
Model PH2005, Power Head, 500kHz–18GHz, -70dBm to +20dBm	2
Signal Generator, 9kHz-20GHz (Keysight N5173B with options: -520, -1E1, -1EM, -UNT, -	1
UNW, -UK6, and -1CM110A or equivalent)	1
Model FM7004AM1, Field Monitor	1
Model FL7218/Kit M1, Field Probe Kit, 2MHz–18GHz, 2-1000V/m	4
Model PS2000B, Probe Stand	
Model CL2000B, Probe Clamp	3
Model FC7020, Fiber Optic Cables 20m	4
Log Periodic Antenna, 20-100MHz, includes stand with manual polarization and tilt (FSA S12018-21 or equivalent)	1
Model ATL80M1GM2, Log-Periodic Antenna, 80-1000MHz, 5000 Watts CW	1
Model ATH200M1G, Horn Antenna, 200-2000MHz	1
Model ATH800M6G, Horn Antenna, 800-6000MHz	1
Model ATH4G8, Horn Antenna, 4-8GHz, 500 Watts CW	1
Model ATH7G18M1, Horn Antenna, 7.5-18GHz, 500 Watts CW	1
Model TP1000B, Tripod, Non-metallic	4
Model AM8000, Antenna Mounting Adapter for Model ATH800M6G	1
Model BF1580, Bulkhead Feed-thru, 1 5/8 EIA to 1 5/8 EIA	2
Model BF7160, Bulkhead Feed-thru, 7-16 DIN to 7-16 DIN	1
Model UG-30D/U, Bulkhead Feed-thru, N female to N	2
Model CC41616080, Coaxial Cable, High Power, 1 5/8 EIA to 1 5/8 EIA, 8m	2
Model CC41616020, Coaxial Cable, High Power, 1 5/8 EIA to 1 5/8 EIA, 2m	2
Model CC41313080, Coaxial Cable, High Power, 7-16 DIN to 7-16 DIN, 8m	1
Model CC41313020, Coaxial Cable, High Power, 7-16 DIN to 7-16 DIN, 2m	1
Model CC11111080, Coaxial Cable, High Power, N male to N male, 8m	2
Model CC11111020, Coaxial Cable, High Power, N male to N male, 2m	2
All internal interconnect cables between system components	Included
Test System Control PC	1
Nexio BAT-EMC, Radiated Immunity Test Software*	1
Nexio BAT-EMC Validation, Start-Up, Training and Maintenance*	1

*Nexio items to be quoted as separate line items and are therefore not included in the price of the system



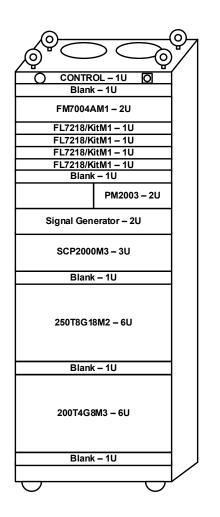
Amplifier Specifications (12500A225A)

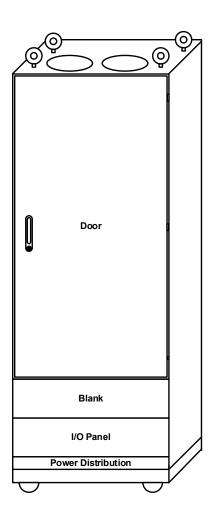
Weight500kg (1100lb)

Amplifier Specifications (2000W1000D)

50/60 Hz, three phase, 9000 watts

Amplifier Specifications (500S1G6A)





Front Rear

Control Rack Specifications