

ELECTRICAL SPECIFICATIONS @ 208VAC 3-phase, 25°C ambient, 50Ω System, MGC mode, RMS detector unless specified otherwise

Parameter	Specifications						Frequency (MHz) & TEST RESULTS										PASS/FAIL		
	Symbol	Min	Typ	Max	Unit	Notes	1	2	5	10	20	30							
Operating Frequency Range	BW	1		30	MHz	Plot 1	x	x	x	x	x	x							Pass
Power Gain @ P _{Out} = 1000W	G _{1dB}	60			dB	Record	69.4	69.5	68.7	68.1	66.5	64.7							Pass
Input power for rated P _{Out} = 1000W	P _{IN}		0		dbm	Record	-9.4	-9.5	-8.7	-8.1	-6.5	-4.7							Pass
Small Signal Gain Flatness, P _{IN} = -30dBm	ΔGSS			±3.5	dB	Plot 1	x	x	x	x	x	x							Pass
Leveled ALC Flatness @ P _{Out} = 1000W	ΔALC			±1.0	dB	Plot 2	x	x	x	x	x	x							Pass
Gain Adjustment Range	VVA	20			dB	Plot 3	x	x	x	x	x	x							Pass
Gain @ Shutdown Condition, P _{IN} = 0dBm	G _{SD}			-35	dB	Plot 4	x	x	x	x	x	x							Pass
Input Return Loss	S ₁₁			-10	dB	Plots 1- 4	x	x	x	x	x	x							Pass
Third Order Inter-modulation Distortion 2-Tones @ 54dBm/Tone, 10KHz	IMD	-20			dBc		-34	-34	-35	-34	-31	-30							Pass
	IP3	64		-20	dBm	Record	71	71	71.5	71	69.5	69							Pass
	IP3	64			dBm	Calculate							36	30	30	34	26		Pass
Harmonics @ P _{Out} = 1000W	4 TH			-25	dBc	Record	-58	-50	-52	-52	-46	-50							Pass
	5 TH			-15			-28	-29	-27	-28	-3	-48							
Spurious Signals	Spur		-70	-60	dBc	Record	<-70	<-70	<-70	<-70	<-70	<-70							Pass
Switching Time, 500Hz TTL, P _{out} = 1000W	T _{ON 90%}			0.5	mSec	record	0.4												Pass
	T _{OFF 10%}			0.5		record	0.002												Pass
Pulse Performance, FC= 20 MHz, P _{Out} = 1000W PEAK Pulse period 150usec, Duty Cycle 67%	T _{RISE}			3	uSec	record	2.1												Pass
	T _{FALL}			3			1.5												Pass
Operating Voltage (Three phase 50/60Hz)	V _{AC}	180	208	260	Volt	Verify	v												Pass
Current Consumption @ Standby	I _{SD}			2	Amp	Record	1.3												Pass
Quiescent Current	I _{DQ}			3	Amp	Record	2.5												Pass
Power Consumption @ P _{Out} = 1000W	P _D			6000	VA	Record	2392	2330	2330	2413	2538	2434							Pass
NTE Test, Limiter = 60.5dBm	P _{OOD}	60		61.8	dBm	Record P _{Out}	61.8	60.5	60.2	60.1	60.3	60.5							Pass
Input Overdrive -Shut down	P _{IOD}			13	dBm	Verify	√												Pass
VSWR Back-Off	VSWR		3:1			Verify	√												Pass
Thermal Overload - Shutdown	T _{OD}			85	°C	Verify	√												Pass

PERFORMANCE PLOTS

