

**ELECTRICAL SPECIFICATIONS @ 220VAC, 20°C, 50Ω System**

Parameter	Note	Specifications
Operating Frequency	BW	80.25 ~ 82.25 MHz
Output Power CW	PSAT	Min. 20k Watts
Input Impedance	Ω	50 ohm
Power Gain	Gp	Typ. 73 dB
Power Gain Flatness	Gripp	Typ. ±0.5dB
Gain Linearity	Li	Max. 0.5dB
Input Power for Rated PSAT	PIN	Typ. 0 dBm
Efficiency	Eff	Min. 60%
Input VSWR	S ₁₁	Max 2.0:1
Harmonics @ P _{OUT} = 20000W	2 ND ,3 RD	Max -40dB
Spurious Signal	Spur	Max. -70dB
Power Stability	G _{stab}	Max. ±0.5% (Peak to Peak)
Phase Stability	P _{stab}	Max. ±0.5deg
Primary Power		200-260VAC, 50/60Hz, Single phase

MECHANICAL SPECIFICATIONS

Parameter	Value	Note
Dimensions, H x W x D	Max. 1900 X 600 X 2600mm	19" Rack
Weight	TBD	kg
RF Input	SMA, Female	
RF Output	EIA 3-1/8, Female	
Cooling	Water cooling system	-

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Symbol	Specifications	Unit
Operating Water Temperature	TA	+10 ~ +35	°C
Non-operating Temperature	TSTG	0 ~ +50	°C
Relative humidity	RH	95 Max.	%

AS81R25SP20000

80.25 – 82.25 MHz / 20k Watts



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MONITORING & CONTROL

Description	Specifications	Note
RS-232	Serial management of device /local operator	D-sub 9pin
Status Monitor	FWD/REV Power indication & Alarm indication Standby mode, Fault indication & Temperature	LCD Controller
Gain Adjustment	Gain Adjustment	Front Panel

LIMITS

Parameter	Specifications	Unit
Input RF drive level without damage	+5 dBm	Max
Over Temperature Alarm	50°C	Max
VSWR Protection	∞ @ all load phase & amplitude for duration of 1 minute 3:1 @ all load phase & amplitude continuous	

SYSTEM OUTLINE

