

# PLASMA SUN PS 1400 R

## Technical Details

Full, Continuous & Highly Efficient Spectrum	
Lamp Power Rating	1000W
Lamp Envelope Sphere Outer Diameter	AS: 32mm AAA: 35mm
Lamp Rotation	0 to 3000 rpm
Plasma Lamp and Plasma Drive Synergy	
System Power Rating	1.360W (AvFP 5.9A 230 V AC)
Correlated Colour Temperature	2500-15.000K
Discharge bulb	Electrodeless, Sulphur based
Lamp intensity shift	None
Colour Rendering Index	70-99
UV output	<380nm 0.14%
Convected & Conducted Heat	<19%
Total Heat	<27%
Cooling of system	Fans (2x) 35dB
IR output	>780nm 8.0%
System Efficiency	90-140 Lm/W
Plasma-i Lamp Life (Bulb)	up to 100.000 Hrs
Light Engine Magnetron	up to 25.000 Hrs
Weight	6.5 Kg
Light Engine Size	L350 x W350 x H240 mm
Electrical Performance	
Input data	
Mains voltage	230 VAC +-10%
Mains frequency	45-65 Hz
Power factor	>0.95 at 1.300W and 230 VAC
Energy efficiency	EEl A++ (Index to EC 874/2012)
Output data	
Anode power	100-1.300W set in 10W steps. Regulated by CPU.
Anode voltage	(Application dependant)
Anode current	25-350 mA (Application dependant)
Filament current	4-10 A. (Parameter setting varied by application.)
Efficiency	>95 % at full power
Protection	
Protection class	I Ⓢ oder II Ⓢ
Protection degree	IP23
Filament circuit	Open circuit / short circuit protected
Anode circuit	Open circuit / short circuit protected.
Software/Interface	
Interface	RS 232 optically isolated.
PSU Control 1	Networking Hardware & Software requires a single PC with Windows XP/ W7 & RS232 port. Can be used to control several light engines.
PSU Control 2	Software including power and temperature monitoring information requires a single PC with Windows XP/ W7 & RS232 port.

Narrow Spectrum	
Typical spectra	
Center fq	2,45 GHz
Fq scale	2 MHz/div
RBW	30 kHz
Amplitude scale	10 dB/div
Certification	
EMC	EN 55015
	EN 61000-3-2
	EN 61000-3-3
	EN 61547
	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 61000-4-11
	EN 60598-1
	EN 61347-1