



PARUS LED grow light PGL-PFL WC III Specification



Product	Model Name RBS Spectrum Standard (b/c) : B type / C type	PGL-PFL WC 1200 b type / c type	PGL-PFL WC 1500 b type	PGL-PFL WC 1800 b type / c type	PGL-PFL WC 2000 b type / c type	PGL-PFL WC 2400 b type / c type
	Power Consumption	80/120 Watt	100 Watt	120/180 Watt	150 Watt	160/240 Watt
Power	AC input voltage range	Free voltage 90~305VAC, 47~63Hz (option Hi-Voltage 180~528VAC)				
	SMPS mode (PSU)	DC Current Design(C.V, C.C Mode)				
	Protection	Short circuit, Overload, Over voltage				
	Power Factor	Efficiency $\geq 95\%$, PFC ≥ 0.98				
	Total Harmonic Distortion	THD<20%(@load $\geq 50\%/115VAC, 230VAC$; @load $\geq 75\%/277VAC$)				
	Inrush Current	Cold Start 70A(twidth=1010 μs measured at 50% Ipeak) at 230VAC; Per NEMA 410				
LEDs	Spectrum Spectrum Ratio(R:B:O)	RBS, RBC, RBF, RBW (Please refer to "PARUS Spectrum")				
Heat Sink	Heat Sink Type	Water cooling + Cooling by free air convection				
	FRAME Material	Body	Aluminium water cool design			
		PCB	Metal PCB(aluminium)			
		Heat conduction	2.0 w/m.k			
Thermal resistance		0.20 °C/w				
Heat Value	BTU/h (b/c) : B type / C type Water Cooled @25°C (b/c)	164/246 16/38	205 20	246/368 25/57	307 28	328/491 33/76
Efficiency	PPF ($\mu mol/s$) RBS Spectrum Standard	312/468	390	468/702	585	624/936
	PPF/W ($\mu mol/j$)	3.9/RBS, 3.7/RBC, 3.8/RBF, 3.5/RBW				
	PPFD ($\mu mol m^{-2}s^{-1}$) RBW(B type) Spectrum Standard	235 $\mu mol m^{-2}s^{-1}$ (measure the distance 500mm)				
Control	Dimming Control	Single Dimming, Group Dimming, Wi-Fi Control (Please refer to "Color dimming controller")				
	Pulse / Duty rate	400 μs / 0~100%				
IP Class	IP67	complete protection against contact, Water projected in powerful jets against the enclosure from any direction shall have no harmful effects.				
Ambient Temperature	Storage Temp.	-30°C ~ 85°C				
	Operation Temp.	~35°C-Cooling by free air convection, ~50°C-Water Cooling				
Angle	Lamp angle	60°, 82°, 110°, 130°, 140°				
Life time		Over 100,000hr (Please refer to "Water cooling lifetime")				
Safety	Standard	CE, EMC, UL,CUL				
Warranty	3 years	3 years				