

## 1. Essential parameters

Model	Size	Power	IP	NW
AL-PAR38-12W	190*120mm	External	53	
AL-PAR38-16W	190*120mm	External	53	
AL-PAR38-18W	190*120mm	External	53	

## 2. Electrical Parameter

Model	Power	Input Voltage	PF	Power efficiency	Frequency
AL-PAR38-12W	12w	AC85-165V	>.8	>88%	50/60HZ
AL-PAR38-16W	16w	AC185-265V	>.8	>88%	50/60HZ
AL-PAR38-18W	18w		>.8	>88%	50/60HZ

## 3. Optical Parameters

Model	CCT	CRI	Flux	Beam Angle
AL-PAR38-12W	Warm White 2700-3200k	>80	1080-1200lm	120degree
AL-PAR38-16W	Natural White 4000-4500k	>80	1440-1600lm	120degree
AL-PAR38-18W	Cool White 5800-6500k	>80	1620-1800lm	120degree

## 4. Application Parameters

Model	Working Humidity	Equal to halogen light	Working Temp	Storage Temp	Lifespan
<b>AL-Par38-12W</b>	10-90%	24-30W	-25~45°C	-30~60°C	35,000hrs
<b>AL-Par38-16W</b>	10-90%	32-40W	-25~45°C	-30~60°C	35,000hrs
<b>AL-Par38-18W</b>	10-90%	36-45W	-25~45°C	-30~60°C	35,000hrs