

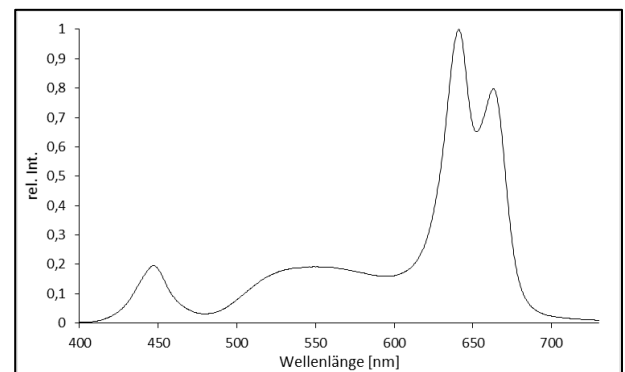
Versatile, modular plant illumination system for professional use in plant production in harsh environment. Highly efficient light generation and light guidance. Highest light homogeneity within the cultivation area guarantees homogenous growth/yield. Multiple spectra available. System including LED-module with stacked power converter (non-fixed external converter optionally available). Passively cooled. Ingress protection class IP64. Flexible and modular installation. Dimmable version optionally available.

Electrical Properties	Value	Unit
typical power consumption <sup>1</sup>	125	W
power factor <sup>1</sup>	0,96	
input voltage range <sup>1</sup>	100 – 240	V (AC: 50/60Hz)
max. input current <sup>1</sup>	1,75	A
typ. inrush current <sup>1</sup>	60	A (375µs FWHM)
max. output voltage <sup>2</sup>	54	V (DC)
constant output current <sup>2</sup>	2,3	A
operating voltage <sup>3</sup>	54	V
operating current <sup>3</sup>	575	mA

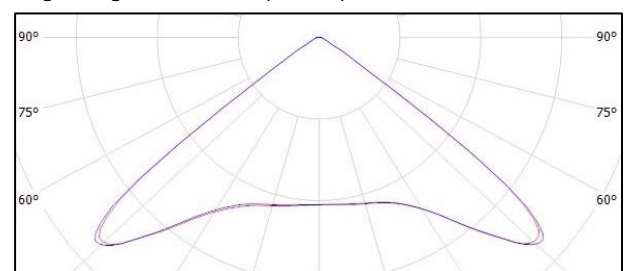
Further Properties	Value	Unit
emission wavelength range (customised spectra optionally)	400 - 730	nm
PPF <sup>4</sup> (up to 400 <sup>8</sup> )	313	µmol/s
module efficiency <sup>5</sup> (up to 3,2 <sup>8</sup> )	2,7	µmol/J
system efficiency <sup>6</sup>	2,5	µmol/J
angle of radiation (rectangular illumination footprint with maximum homogeneity)	90°	symmetric
x - colour space coordinate <sup>7</sup>	0,47	warm white
y - colour space coordinate <sup>7</sup>	0,38	colour impression
dimensions <sup>2</sup>	220x70x40	mm
dimensions <sup>3</sup>	980x75x45	mm
weight	4000	g
AC-cable length (opened ends)	0,26	m
protection rating	IP64	
Ambient operating temperature range	5 – 40	°C
max. relative air humidity for operation	100	%

<sup>1</sup> mains side  
<sup>2</sup> converter (stacked on LED-module; non-fixed external converter optionally available)  
<sup>3</sup> LED-module  
<sup>4</sup> Photosynthetic Photon Flux LED-module with standard spectrum;  
<sup>5</sup> PPF per Watt electrical power consumption LED-module with standard spectrum;  
<sup>6</sup> PPF per Watt electrical power consumption mains side;  
<sup>7</sup> according to CIE 1931  
<sup>8</sup> with custom blue/red spectrum

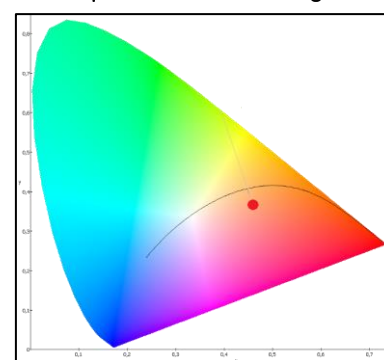
Spectral Power Distribution (standard spectrum)



Angular Light Distribution (C0/C90)

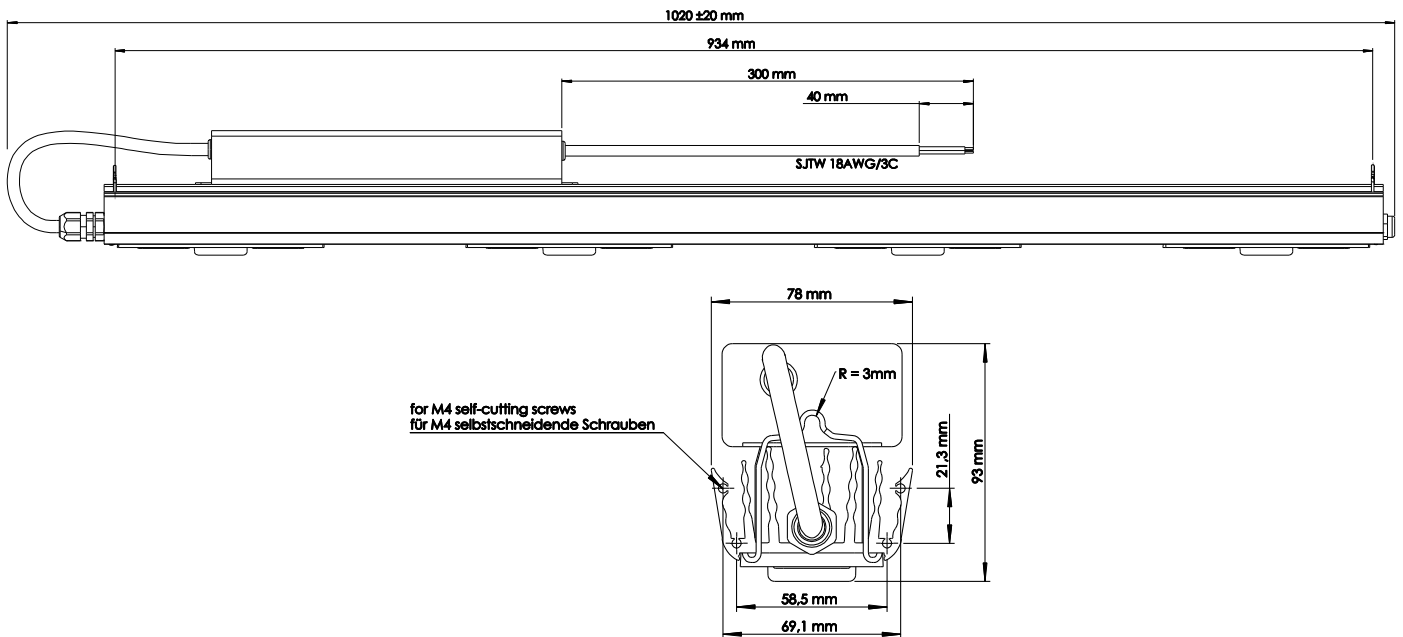


Colour Space Location According to CIE 1931

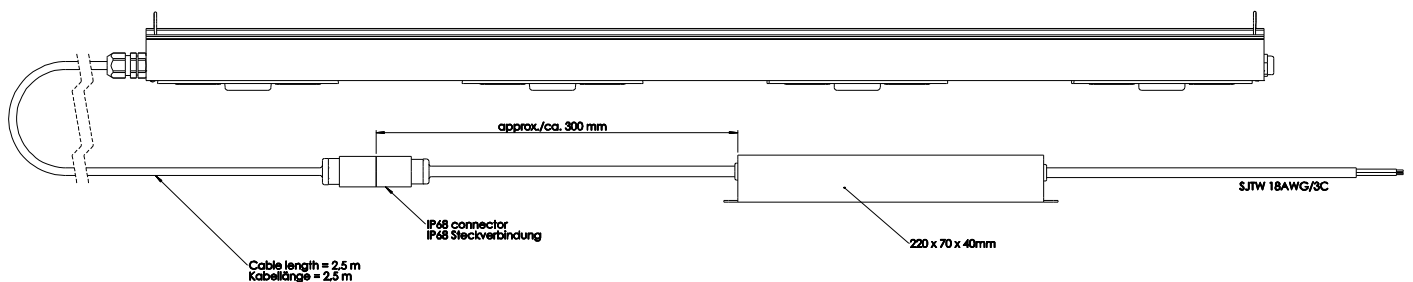


For maximum cost effectiveness and efficiency of the overall illumination system we strongly recommend an individual light planning. Please contact us via [support@sanlight.info](mailto:support@sanlight.info).

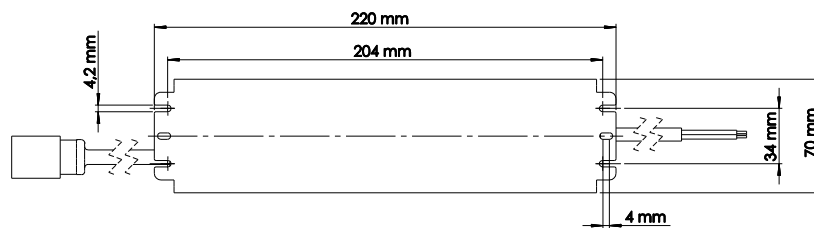
## additional measurements (option: stacked converter, non-dimable)



## P4W with external converter (optional)

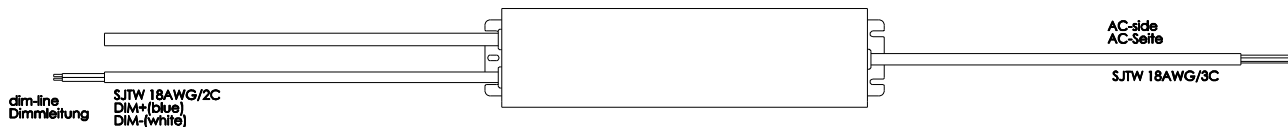


### converter dimensions\*:



\*non-dimable option depicted

## Dimming function (optionally available):



The power converter is equipped with two additional dimming wires (DIM+ blue and DIM- white). The following options can be used to dim the luminaire:

Dimming signal	admissible parameter range
DC voltage signal	2-10V DC (20-100%)
resistor	20kΩ – 100kΩ (20-100%)
10V PWM-signal (frequency range: 100Hz-3kHz)	20-100%

### Caution:

Opened dimming wires will cause an undefined power status ranging from 95% to 100%. The dimming signal shall not fall below or exceed the admissible parameter range given above. The typical dimming characteristic is given in Figure 1 and is valid for all three dimming variations.

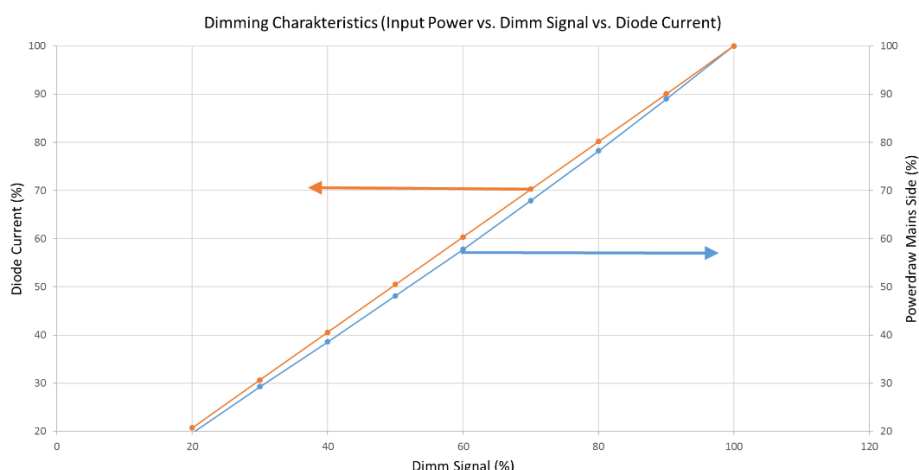
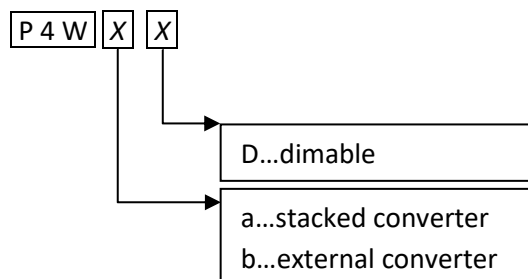


Figure 1: dimming characteristics

## ordering information:

article code:



examples:

- P4WA stacked converter, non-dimable
- P4WAD stacked converter, dimable
- P4WB external converter, non-dimable
- P4WBD external converter, dimable