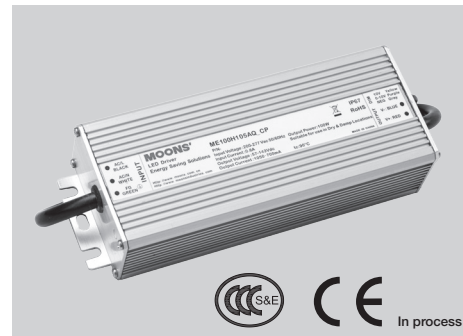


# General other series - ME100MxxxAQ\_CP / Constant Power

## Features

- Input voltage: 176-305Vac
- Built-in active PFC function 0.98 Typ.
- High efficiency: up to 90% Typ
- IP67
- Constant Current / 0-10V Dimming / Clock Dimming(CLK)/PWM Dimming
- Protection: OVP, SCP, OTP
- CCC / CE in process
- Full Power at 65%I<sub>omax</sub> ~ 100%I<sub>omax</sub> (Constant Power)
- 5-year warranty



179 x 67.5 x 40 mm

## Electrical Specifications

Voltage Range	176 ~ 305VAC
Frequency Range	47~63 Hz
Power factor	0.98 ( Typical ) at 220Vac , >0.9 at 220 ~ 277Vac input, with 70% ~ 100% load conditions
THD	< 20%, at 220 ~ 277Vac input, with 70% ~ 100% load conditions
AC Current	4A MAX at 100Vac, 1.7A MAX at 220Vac
Inrush Current	65A at 230Vac input 25°C cold start
Leakage Current	0.75mA at 277Vac 50Hz input
Line regulation	± 1%
Load regulation	± 3%
Turn-on Delay Time	1.0s(typ.), measured at 220Vac input
Protection	Over Voltage Protection, Short Circuit Protection, Over Temperature Protection

## Environmental Specifications

Operating temperature	-40~+70°C (T <sub>c</sub> ≤ 90°C)
Operating Humidity	20~95%RH, non-condensing
Storage Temp., Humidity	-40~+85°C, 10~95%RH
Vibration	10~500Hz, 5G 12min/cycle, period for 72min each along X、Y、Z axes
MTBF	250,000 hours, measured at full load, 25°C ambient temperature MIL-HDBK-217F(25°C)
Dimension	179 x 67.5 x 40 mm ( LxWxH )

## Safety & EMC Compliance

Safety Standard	UL8750, UL1012, CAN/CSA-C22.2No.107.1-01, EN61347-1, EN61347-2-13
Withstand Voltage	I/P-O/P: 3.75KVAC I/P-FG: 1.75KV O/P-FG: 1.5KV
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/70%RH
EMC Emission	EN55015, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547 ( Surge L, N-FG 6KV, L-N 4KV )

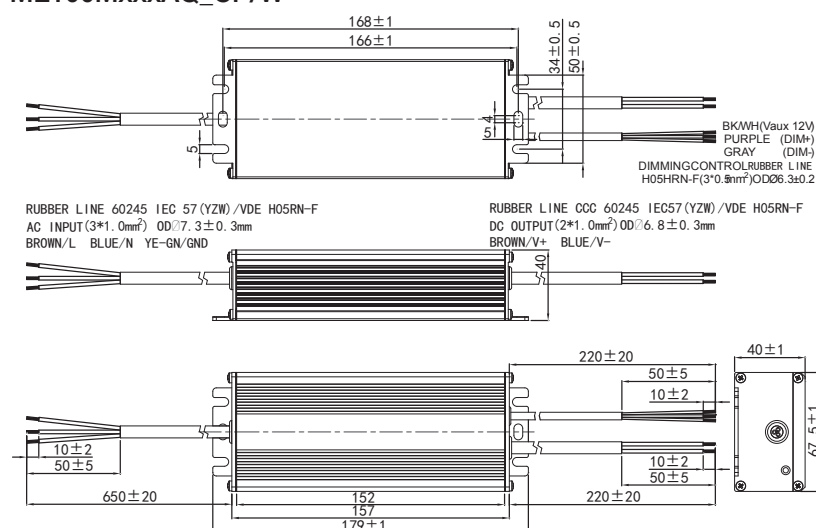
## Model Specifications

Part Number	Output Voltage Range	Rated Current	Rated Power	Rated Voltage Range	Current Accuracy	Efficiency (Typ)
						220VAC
ME100M105AQ_CP	57-143VDC	700-1050mA	100(max)	95-143VDC	± 5%	90%
ME100M150AQ_CP	40-100VDC	1000-1500mA	100(max)	67-100VDC	± 5%	90%
ME100M210AQ_CP	29-71VDC	1400-2100mA	100(max)	48-71VDC	± 5%	89%
ME100M300AQ_CP	20-50VDC	2000-3000mA	100(max)	33-50VDC	± 5%	88%
ME100M420AQ_CP	14-36VDC	2800-4200mA	100(max)	24-36VDC	± 5%	87%

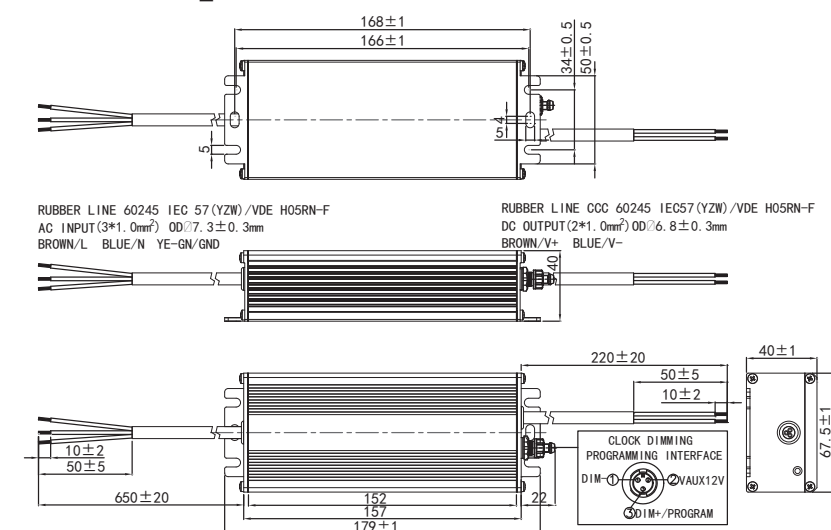
Remarks: 1. For Constant Power driver, there's two versions ME100MxxxAQ\_CP/W and ME100MxxxAQ\_CP/C. ME100MxxxAQ\_CP/W using 3 wires dimming port( programming port ), ME100MxxxAQ\_CP/C using 3 pins water proof connector dimming port( programming port ).  
2. CP driver is compatible with charged configuration mode and uncharged configuration mode.

## Mechanical Outline (unit: mm)

### ME100MxxxAQ\_CP/W



### ME100MxxxAQ\_CP/C



Numbering System

Quick Selection

LED Driver  
- General Series  
- Outdoor Use  
- H SeriesLED Driver  
- General Series  
- Outdoor Use  
- Half Potted SeriesLED Driver  
- General Series  
- Outdoor Use  
- A SeriesLED Driver  
- General Series  
- Outdoor Use  
- Other SeriesLED Driver  
- Intelligent Series  
- 50W Intelligent SeriesLED Driver  
- Intelligent Series  
- 40W Intelligent SeriesLED Driver  
- Intelligent Series  
- 50W Intelligent SeriesLED Driver  
- Intelligent Series  
- 50W Intelligent SeriesLED Driver  
- Intelligent Series  
- Other SeriesGeneral Power Supplies  
- MP Series

SPD

Appendix