

# 18W/28W In-Door Dimmable Multi-Power LED Driver

## Product Offering



**Order part number:**

MP-AD-018W-0A35-A-FD-20

MP-AD-028W-0A70-A-FD-20

## Product Description:

- Dimmable Multi-Power constant current output (Leading/Trailing edge)
- Active power factor control
- IP20 independent LED driver, for indoor use
- Nominal life 50,000hrs (at tc 65 °C with a failure rate <0.2% per 1,000hrs)

## Feature:

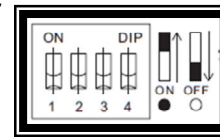
- High efficiency; PF > 0.9
- Start up time < 0.5sec;
- Multi-Power LED driver with output current selection by Dip-Switch selector
- Fully protected: Short circuit, input voltage surge, overvoltage protection, over-temperature protection

## Technical Data

Model Number:	MP-AD-018W-0A35-A-FD-20	MP-AD-028W-0A70-A-FD-20
Rated supply voltage, AC	220-240 Vac, 50/60Hz	
AC Voltage range, AC	194-264 Vac, 50/60Hz	
Survive input range (for 30mins)	170-305 Vac, 50/60Hz	
Rated current @230Vac	<0.12A	<0.24A
Leakage current	<250µA@240Vac	
Typ. Eff. (at 230V 50Hz, full load)	Typ. 84%	Typ. 85%
Inrush current	<3A (T-width, 50% peak @25µs)	
Typ. λ (at 230 V 50Hz, Full load)	>0.9	
Typ. λ (at 230 V 50Hz, Min. load)	>0.7	
Turn on time (at 230V 50Hz, full load)	<0.5s	
Output rated power (depend on the output current setting)	18W	28W
Ambient temperature ta	-15 ... +45 °C	
Max. Casing temperature tc	75 °C	
Size (mm)	131x44x23	
Weight	120g	

## Output Current Selecting Table

Output current selector



150-350mA selection (18W)

Output Current Selector						
Output	Volt.	1	2	3	4	
350mA	25V	50V	ON	ON	ON	ON
300mA	25V	50V	ON	ON	ON	-
250mA	30V	50V	ON	ON	-	-
200mA	30V	50V	ON	-	-	-
150mA	33V	50V	-	-	-	-

350-700mA selection (28W)

Output Current Selector						
Output	Volt.	1	2	3	4	
700mA	25V	42V	ON	ON	ON	ON
600mA	25V	42V	ON	ON	ON	-
500mA	30V	52V	ON	ON	-	-
400mA	30V	52V	ON	-	-	-
350mA	33V	52V	-	-	-	-

## Standard comply

EN55015; EN61000-3-2; EN61000-3-3; EN61547; EN61347-1; EN61347-2-13; SELV

## Specific Technical Data

Order Part number	Max. output current	Output voltage	Output current tolerance
MP-AD-018W-0A35-A-FD-20	150-350mA <sup>(1)(2)(3)</sup>	25 - 50Vdc (max. 59 Vdc) <sup>(4)</sup>	±10%
MP-AD-028W-0A70-A-FD-20	350-700mA <sup>(1)(2)</sup>	25 - 52 Vdc (max. 59 Vdc) <sup>(4)</sup>	±10% <sup>(3)</sup>

**Remark:**

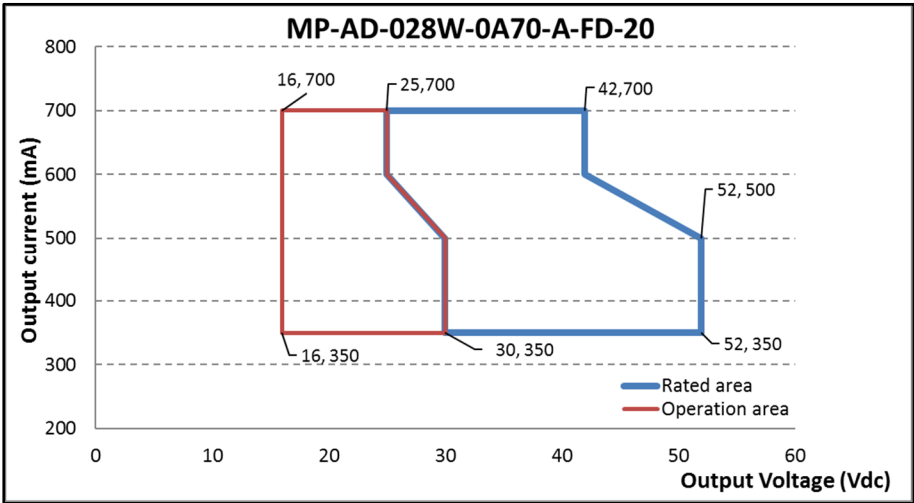
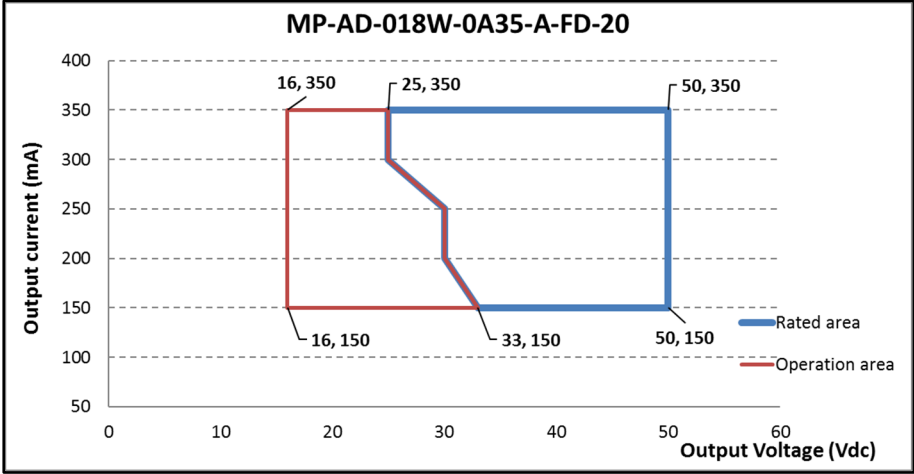
- (1) For details please refer to "output current selector" section
- (2) For detail specification, please refer to the "Technical Information".
- (3) At 150mA output current, the tolerance is ±11%
- (4) Please refer to output current selecting table for output voltage range.

**Notes:**

- Specifications may vary without notice
- Always consult local electrical codes
- Parameters are measured at rated output, rated load and at an ambient temperature of 25°C
- Expect slight variation including component tolerance, setup tolerance, line regulation and load regulation.
- Power supplies should always be stress tested and tested for EMC within specific fixture
- Where grounding/earthing is not indicated, avoid grounding/earthing or contact with grounded/earthed metal enclosures
- Performance with dimmers, where supported, may vary depending on dimmer model

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## Operation Output diagram



## Outlook (in mm):

