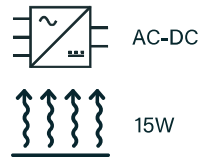
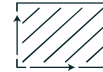


## YSM20 15W SERIES



DIMENSIONS:



2.07 x 1.07 x 0.94" (52.5 x 27.2 x 24mm)

**EN55032 LEVEL B**

**NO-LOAD POWER  
<0.1W**

**-30 TO 70°C  
OPERATION**

### Part numbers

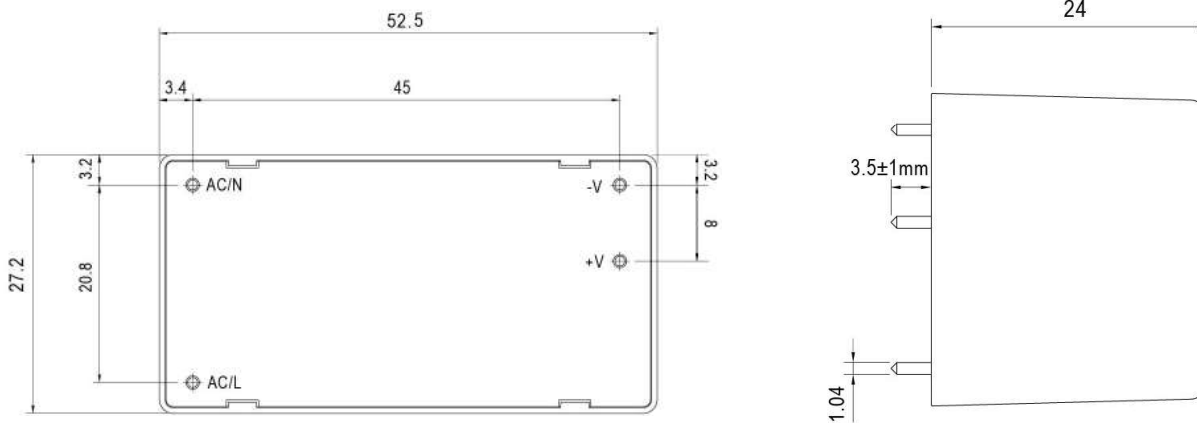
YSM20	033	3500
Series	Output voltage	Output current
	033 = 3.3VDC 050 = 5VDC 120 = 12VDC 150 = 15VDC 240 = 24VDC	3500 = 3.5A 3000 = 3.0A 1250 = 1.25A 1000 = 1.0A 0630 = 0.63A

### Key specifications

Input range	Safety certification	Efficiency	Environmental performance
90-264VAC	IEC/UL/EN 62368-1	74-83%	-30 to 70°C

## YSM20 15W SERIES

### Mechanical

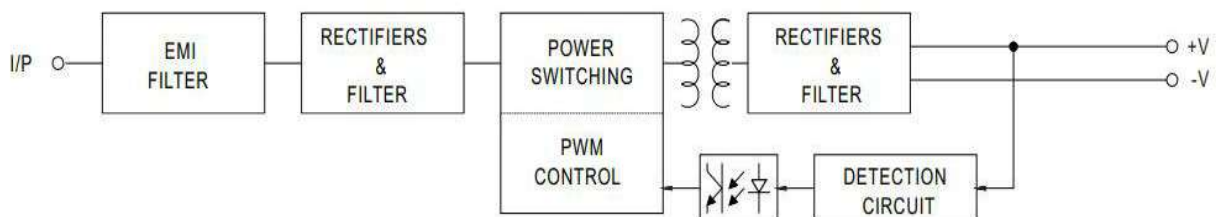


### Notes

1. All dimensions shown in mm
2. Weight - 58g

### Application Notes

fosc : 65KHz



## YSM20 15W SERIES

### Models & Ratings

Model Number	Output Power	Output Voltage	Output current	Efficiency (1)
YSM20-0333500	11.55W	3.3V	3.5A	74%
YSM20-0503000	15W	5V	3A	78%
YSM20-1201250	15W	12V	1.25A	82%
YSM20-1501000	15W	15V	1A	82%
YSM20-2400630	15.12W	24V	0.63A	83%

1. Typical efficiency at 230VAC

### Input

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Input voltage	90		264	VAC	See page 5 for derating curve
Input frequency	50		60	Hz	
Input current	0.2		0.35	A	0.35A 115VAC /0.2A 230VAC
Inrush current	20		45	A	20A at 115VAC and 45A at 230VAC. Cold start.
No load input power			0.1	W	
Leakage current			0.25	mA	264VAC

### Output

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Output voltage	3.3		24	VDC	See Models & Ratings table
Set point accuracy		±2		%	
Line regulation		±0.3		%	
Load regulation		±0.5		%	0 to 100% load
Ripple and noise		200		mV pk-pk	All models measured with 10uF and 0.1uF capacitor. 20 MHz bandwidth
Hold up time	12		40	mS	12ms for 115VAC and 40ms for 230VAC

## YSM20 15W SERIES

### Protections

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Overload	115		190	%	Trip and restart. Automatic recovery
Short circuit					Trip and restart. Automatic recovery
Over voltage		3.3V model = 4.95V 5V model = 6.75V 12V model = 16.2V 15V model = 20.25V 24V model = 32.4V		V max	Protection type - clamp by Zener Diode. Latch reset

### Safety

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Safety standards		IEC/EN/UL62368-1			
Isolation: Input to output	3000			VAC	

### EMC: Immunity

	Standard	Test level	Criteria	Notes/Conditions
ESD	EN61000-4-2	2/3	A	±4kV contact / ±8kV Air
Radiated	EN61000-4-3	2	A	3V/m
EFT	EN61000-4-4	2	A	±1kV N/L
Surges	EN61000-4-5	Installation class 3	A	±1kV L/N
Conducted	EN61000-4-6	2	A	3Vrms
Voltage dips and interruptions	EN61000-4-11	0% dips, 70% dips and interruption performance criteria B,C,C		

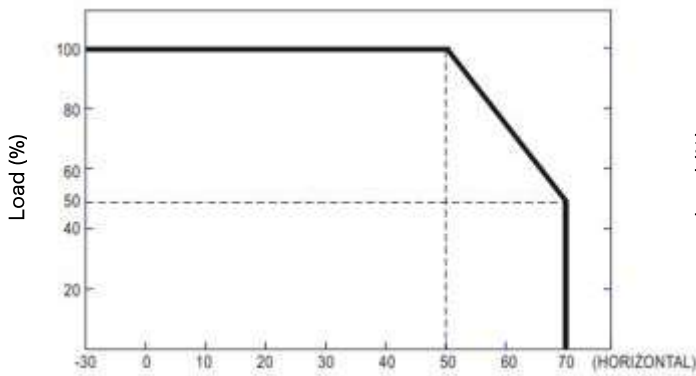
### EMC: Emissions

	Standard	Test level	Criteria	Notes/Conditions
Conducted	EN55032	B		
Radiated	EN55032	B		
Harmonic current	EN61000-3-2	Class A		
Voltage flicker	EN61000-3-3			

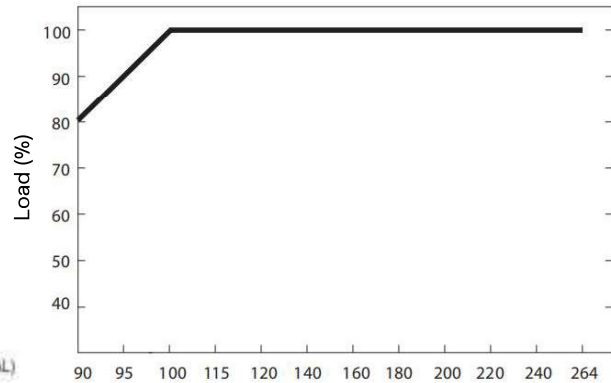
## YSM20 15W SERIES

### Environmental

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Operating temperature	-30		70	°C	See derating curve. 20-90% RH
Storage temperature	-40		85	°C	10-95% RH non-condensing
Temperature coefficient			±0.03	%/°C	0-50°C
MBTF	>1.4			MHrs	As per MIL-HDBK-217F, 25°C GB



Environmental temperature (°C)



Input voltage (VAC)