

DATASHEET

Switching power supply

Item No. 3373414	Item No. 3374185
Item No. 3373415	Item No. 3374186
Item No. 3373416	Item No. 3374187
Item No. 3374182	Item No. 3374188
Item No. 3374183	Item No. 3374189
Item No. 3374184	

Features

- Universal AC input / full range
- High operating temperature up to 70 °C
- Short circuit, overload and over voltage protection
- Cooling by free air convection
- Higher efficiency/low power dissipation
- Three years warranty

Technical data

50 W Series

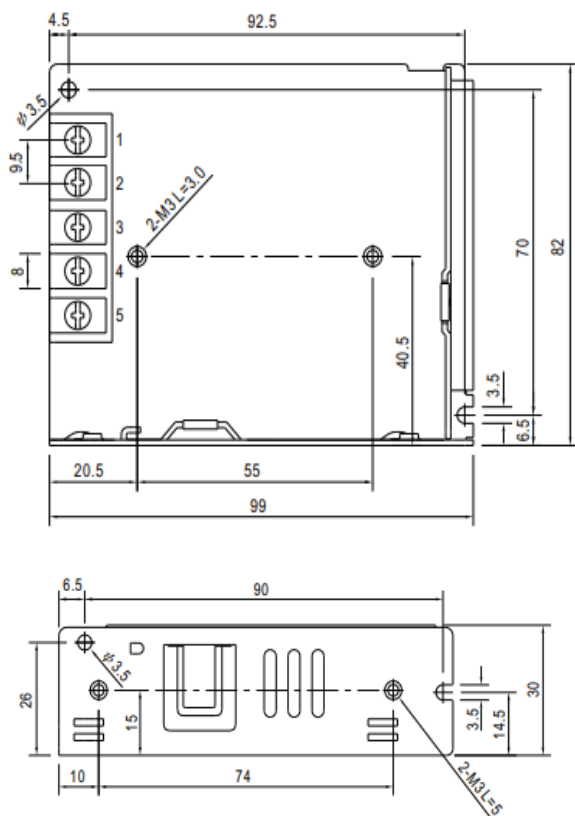
Item No.:	3373414	3373415	3373416
Model No.:	TC-YEL50-5	TC-YEL50-12	TC-YEL50-24
Input voltage	100 - 240 V/AC, 50/60 Hz		
Input Current (max.)	0.95 A / 115 V/AC, 0.56 A / 230 V/AC	0.95 A / 115 V/AC, 0.56 A / 230 V/AC	0.95 A / 115 V/AC, 0.56 A / 230 V/AC
Output voltage	5 V/DC	12 V/DC	24 V/DC
Output current	10.0 A	4.2 A	2.2 A
Output power (max.)	50.0 W	50.4 W	52.8 W
Leakage current	<0.75 mA / 240 V/AC		
Voltage tolerance	±2.0 %	±1.0 %	±1.0 %
Output voltage ripple (peak-to-peak)	80 mVp-p	120 mVp-p	150 mVp-p
Efficiency at full load	83.0 %	86.0 %	88.0 %
Standby consumption	0.5 W		
Power factor (PF)	No		
Rated lifetime	600K hrs min. MIL-HDBK-217F (25 °C)		
Protection against	Short circuit, overload, overvoltage		
Cooling mode	Free air convection		
Protection level	IP20		
Protection class	I		
Dimmability	No		
For use with light sources	LED		
Operating conditions	-20 °C to +70 °C, 20 - 95% RH		
Storage conditions	-40 °C to +85 °C, 10 - 95% RH		
Manufacturer color	Metallic		
Dimesions (L x W x H)	99 x 82 x 30 mm	99 x 82 x 30 mm	99 x 82 x 30 mm
Weight (approx.)	230 g	230 g	230 g



Product image



Dimensions and Installation



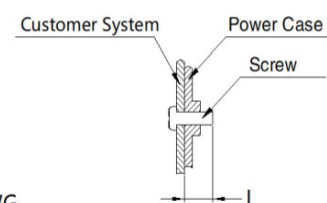
Input

No.	Description
1	AC/L
2	AC/N
3	FG $\perp$

Output

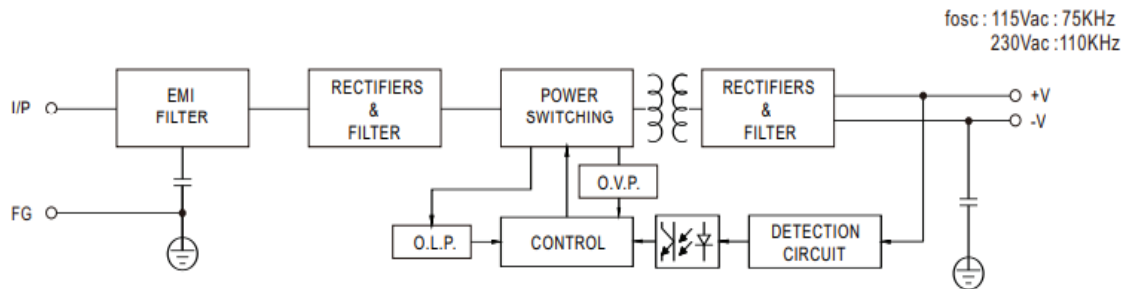
No.	Description
4	DC OUTPUT -V
5	DC OUTPUT +V

Screw Spec.	L(max)	Torque(max)
M3	5mm	0.4N·m
M3	3mm	0.4N·m

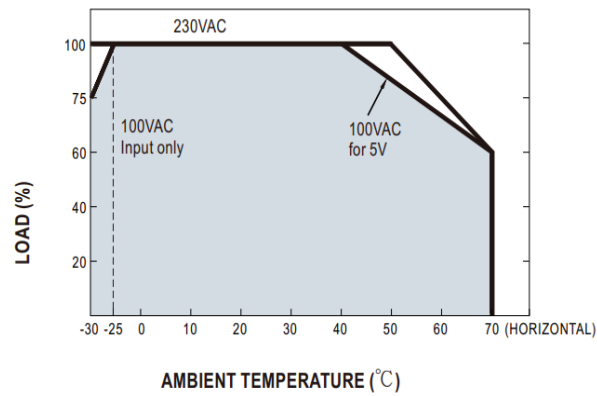


Note:
Unit: mm[inch]
Wire range: 22-12AWG
Connector tightening torque: M3.5 , 0.8N·m
General tolerances: $\pm 1.00[\pm 0.039]$

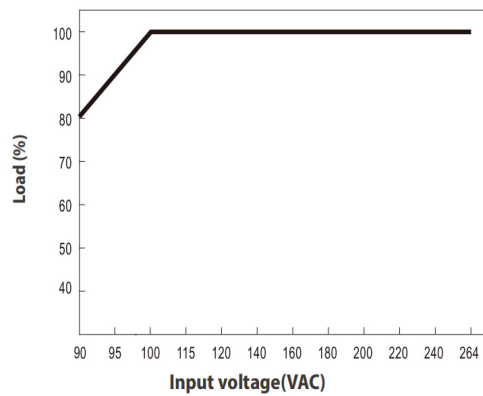
Block Diagram



Deduction curve and temperature



Minus output and input voltage curves



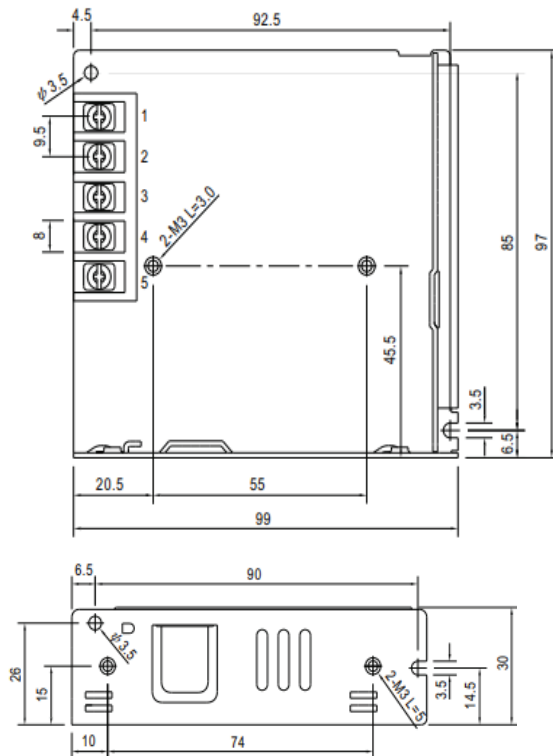
75 W Series

Item No.:	3374182	3374183
Model No.:	TC-YEL75-12	TC-YEL75-24
Input voltage	100 - 240 V/AC, 50/60 Hz	
Input Current (max.)	1.7 A / 115 V/AC, 0.85 A / 230 V/AC	1.7 A / 115 V/AC, 0.85 A / 230 V/AC
Output voltage	12 V/DC	24 V/DC
Output current	6.0 A	3.2 A
Output power (max.)	72.0 W	76.8 W
Leakage current	<0.75 mA / 240 V/AC	
Voltage tolerance	±1.0 %	±1.0 %
Output voltage ripple (peak-to-peak)	120 mVp-p	150 mVp-p
Efficiency at full load	88.0 %	88.5 %
Standby consumption	0.5 W	
Power factor (PF)	No	
Rated lifetime	600K hrs min. MIL-HDBK-217F (25 °C)	
Protection against	Short circuit, overload, overvoltage	
Cooling mode	Free air convection	
Protection level	IP20	
Protection class	I	
Dimmability	No	
For use with light sources	LED	
Operating conditions	-20 °C to +70 °C, 20 - 95% RH	
Storage conditions	-40 °C to +85 °C, 10 - 95% RH	
Manufacturer color	Metallic	
Dimesions (L x W x H)	99 x 97 x 30 mm	99 x 97 x 30 mm
Weight (approx.)	250 g	250 g

Product image



Dimensions and Installation



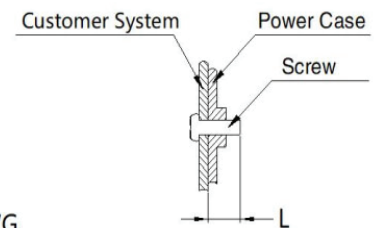
Input

No.	Description
1	AC/L
2	AC/N
3	FG $\perp$

Output

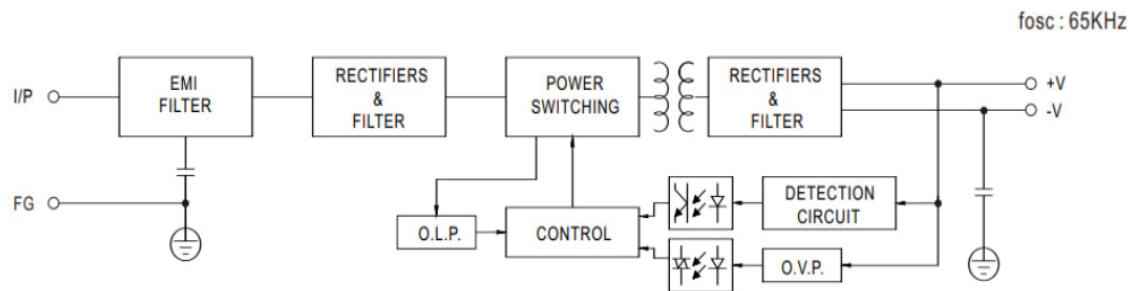
No.	Description
4	DC OUTPUT -V
5	DC OUTPUT +V

Screw Spec.	L(max)	Torque(max)
M3	5mm	0.4N·m
M3	3mm	0.4N·m

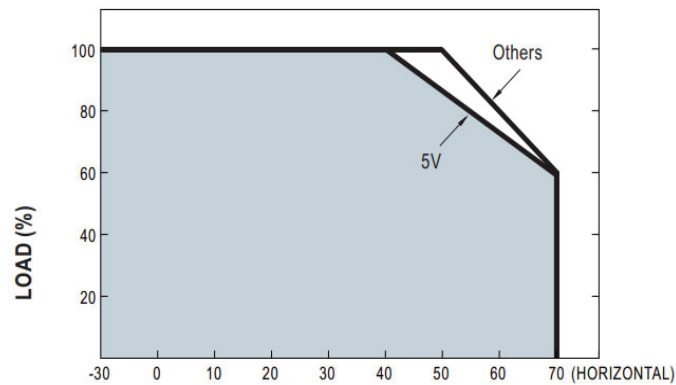


Note:
 Unit: mm[inch]
 Wire range: 22-12AWG
 Connector tightening torque: M3.5, 0.8N·m
 General tolerances: $\pm 1.00[\pm 0.039]$

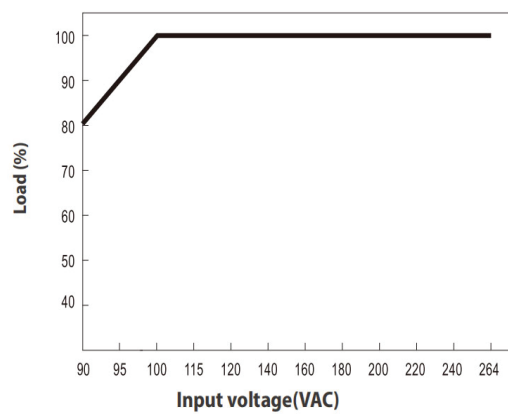
Block Diagram



Deduction curve and temperature



Minus output and input voltage curves



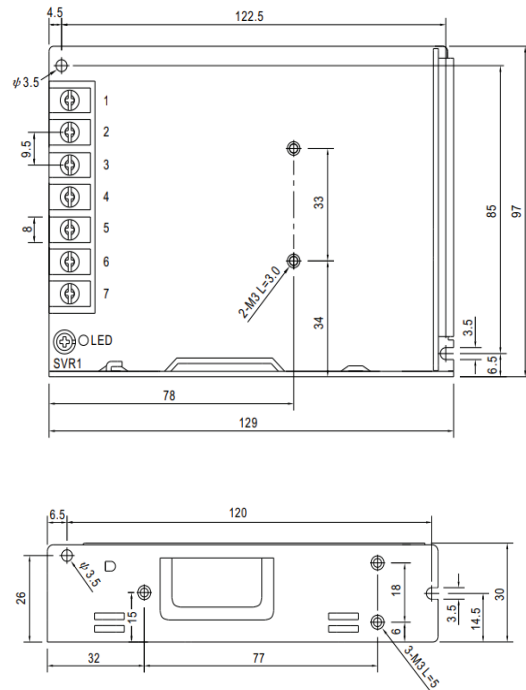
100 W Series

Item No.:	3374184	3374185	3374186	3374187
Model No.:	TC-YEL100-5	TC-YEL100-12	TC-YEL100-15	TC-YEL100-24
Input voltage	100 - 240 V/AC, 50/60 Hz			
Input Current (max.)	1.9 A / 115 V/AC, 1.2 A / 230 V/AC	1.9 A / 115 V/AC, 1.2 A / 230 V/AC	1.9 A / 115 V/AC, 1.2 A / 230 V/AC	1.9 A / 115 V/AC, 1.2 A / 230 V/AC
Output voltage	5 V/DC	12 V/DC	15 V/DC	24 V/DC
Output current	18.0 A	8.5 A	7.0 A	4.5 A
Output power (max.)	90.0 W	102.0 W	105.0 W	108.0 W
Leakage current	<0.75 mA / 240 V/AC			
Voltage tolerance	±2.0 %	±1.0 %	±1.0 %	±1.0 %
Output voltage ripple (peak-to-peak)	100 mVp-p	120 mVp-p	120 mVp-p	150 mVp-p
Efficiency at full load	86.0 %	88.0 %	88.5 %	90.0 %
Standby consumption	0.5 W			
Power factor (PF)	No			
Rated lifetime	600K hrs min. MIL-HDBK-217F (25 °C)			
Protection against	Short circuit, overload, overvoltage			
Cooling mode	Free air convection			
Protection level	IP20			
Protection class	I			
Dimmability	No			
For use with light sources	LED			
Operating conditions	-20 °C to +70 °C, 20 - 95% RH			
Storage conditions	-40 °C to +85 °C, 10 - 95% RH			
Manufacturer color	Metallic			
Dimesions (L x W x H)	129 x 97 x 30 mm	129 x 97 x 30 mm	129 x 97 x 30 mm	129 x 97 x 30 mm
Weight (approx.)	340 g	340 g	340 g	340 g

Product image



Dimensions and Installation



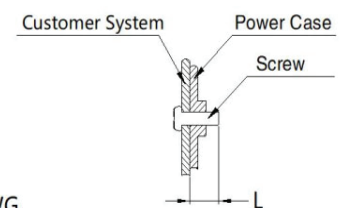
Input

No.	Description
1	AC/L
2	AC/N
3	FG $\perp$

Output

No.	Description
4,5	DC OUTPUT -V
6,7	DC OUTPUT +V

Screw Spec.	L(max)	Torque(max)
M3	5mm	0.4N·m
M3	3mm	0.4N·m



Note:

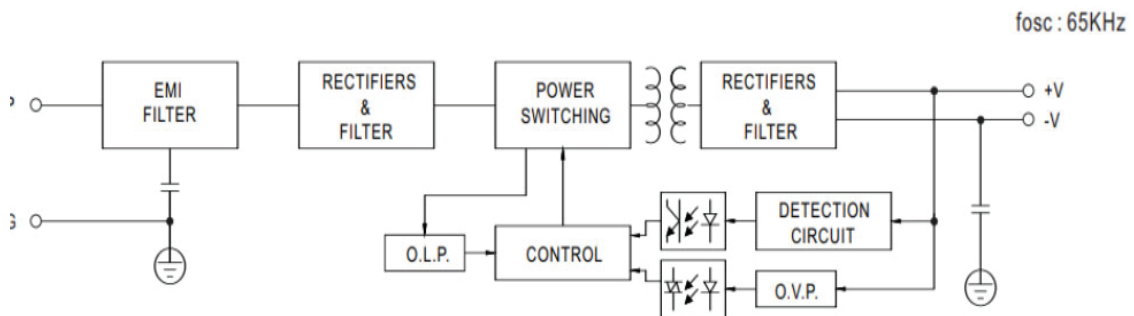
Unit: mm[inch]

Wire range: 22-12AWG

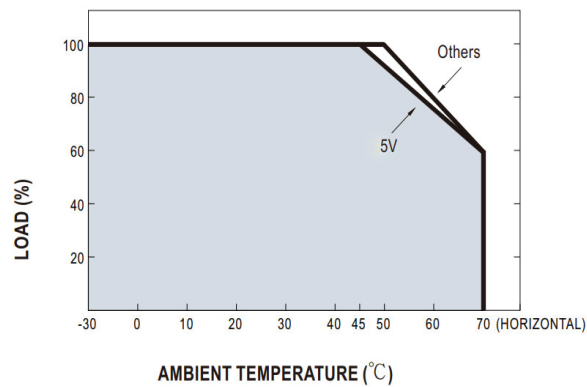
Connector tightening torque: M3.5 , 0.8N·m

General tolerances: $\pm 1.00[\pm 0.039]$

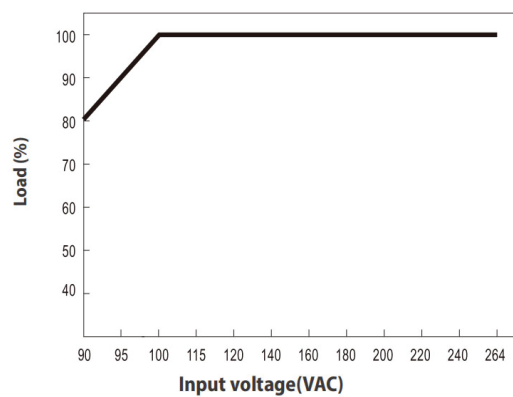
Block Diagram



Deduction curve and temperature



Minus output and input voltage curves



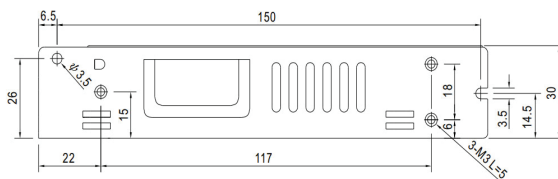
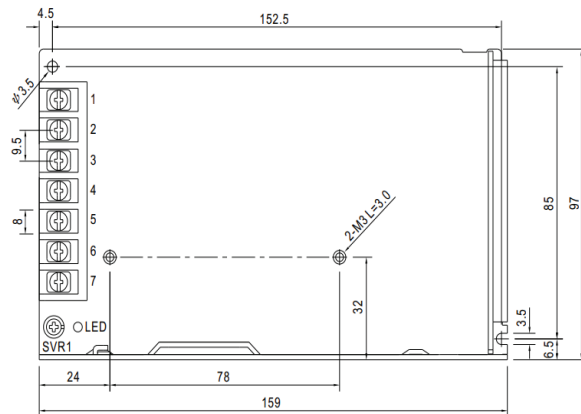
150 W Series

Item No.:	3374188	3374189
Model No.:	TC-YEL150-12	TC-YEL150-24
Input voltage	100 - 240 V/AC, 50/60 Hz	
Input Current (max.)	3 A / 115 V/AC, 1.7 A / 230 V/AC	3 A / 115 V/AC, 1.7 A / 230 V/AC
Output voltage	12 V/DC	24 V/DC
Output current	12.5 A	6.5 A
Output power (max.)	150.0 W	156.0 W
Leakage current	<0.75 mA / 240 V/AC	
Voltage tolerance	±1.0 %	±1.0 %
Output voltage ripple (peak-to-peak)	150 mVp-p	150 mVp-p
Efficiency at full load	87.5 %	89.0 %
Standby consumption	0.5 W	
Power factor (PF)	No	
Rated lifetime	580K hrs min. MIL-HDBK-217F (25 °C)	580K hrs min. MIL-HDBK-217F (25 °C)
Protection against	Short circuit, overload, overvoltage	
Cooling mode	Free air convection	
Protection level	IP20	
Protection class	I	
Dimmability	No	
For use with light sources	LED	
Operating conditions	-20 °C to +70 °C, 20 - 95% RH	
Storage conditions	-40 °C to +85 °C, 10 - 95% RH	
Manufacturer color	Metallic	
Dimesions (L x W x H)	159 x 97 x 30 mm	159 x 97 x 30 mm
Weight (approx.)	480 g	480 g

Product image



Dimensions and Installation



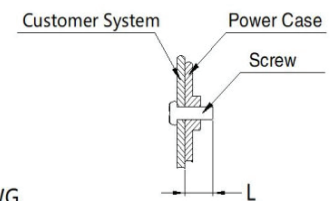
Input

No.	Description
1	AC/L
2	AC/N
3	FG $\perp$

Output

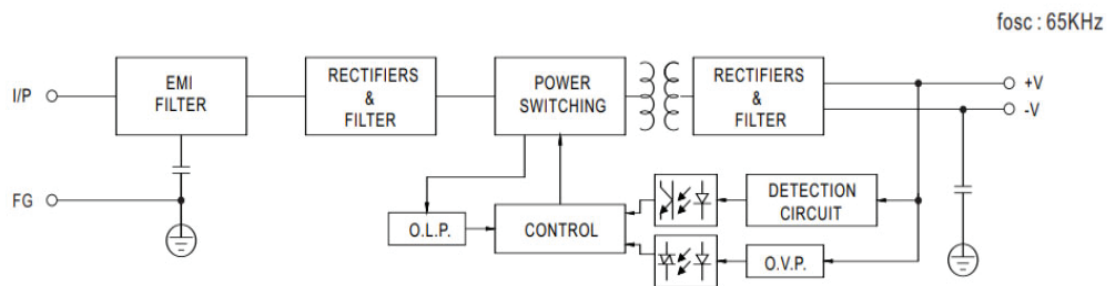
No.	Description
4,5	DC OUTPUT -V
6,7	DC OUTPUT +V

Screw Spec.	L(max)	Torque(max)
M3	5mm	0.4N·m
M3	3mm	0.4N·m

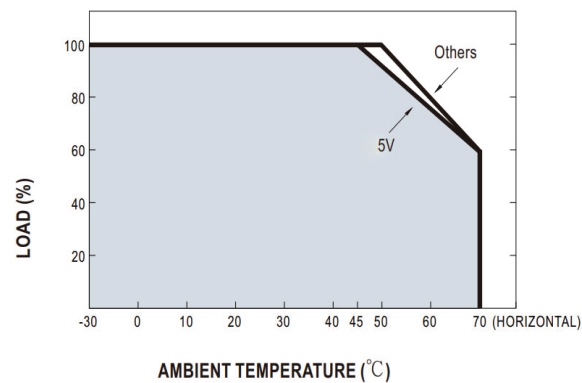


Note:
Unit: mm[inch]
Wire range: 22-12AWG
Connector tightening torque: M3.5 , 0.8N·m
General tolerances: $\pm 1.00[\pm 0.039]$

Block Diagram



Deduction curve and temperature



Minus output and input voltage curves

