



MEAN WELL DRA-60 Series 60W Single Output Switching Power Supply Owner's Manual

[Home](#) » [MEAN WELL](#) » MEAN WELL DRA-60 Series 60W Single Output Switching Power Supply Owner's Manual 



60W Single Output Switching Power Supply
DRA-60 series
User's Manual



Contents

[1 Features](#)

[2 Description](#)

[3 Documents / Resources](#)

[3.1 References](#)

[4 Related Posts](#)

Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Can be installed on DIN rail TS-35/7.5 or 15
- Output Voltage adjustable through internal potentiometer
- Output Current adjustable through external 1~10Vdc, PWM signal, or resistance
- Cooling by free air convection
- Pass LPS
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

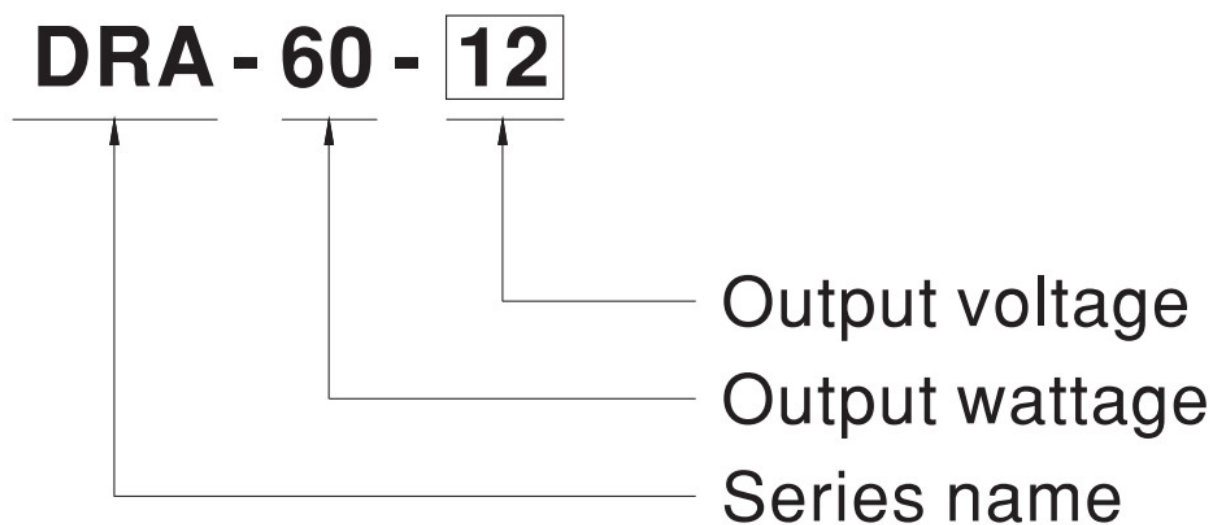
Applications

- Machine vision inspection system
- Plant cultivation system

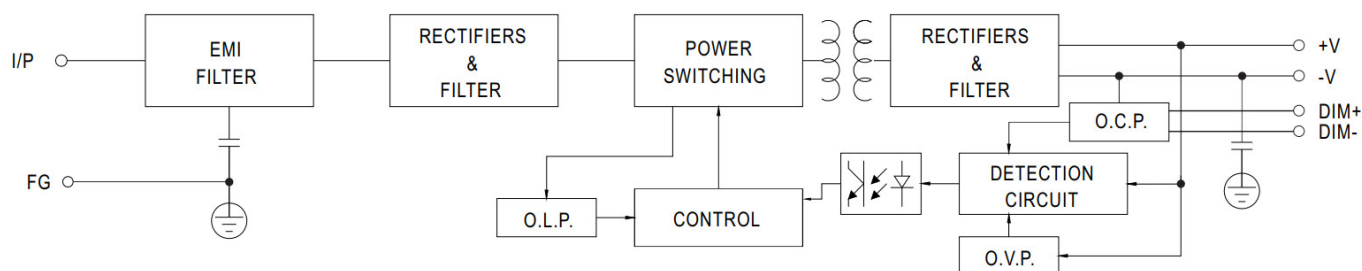
Description

DRA-60 is one 60W AC/DC DIN rail power supply, featuring the adjustable output current. Users are able to easily change the constant output current level, via 1~10Vdc, PWM signal, or resistance. DRA-60 can be mounted on DIN rail TS-35/7.5 or 15; in addition, the width of the unit is only 40mm so it is well suited for installation in a limited spacing. DRA-60 accepts the universal AC input between 90VAC and 264VAC; the efficiency is up to 87% and the entire series can operate, under free air convection, from -30°C through 70°C.

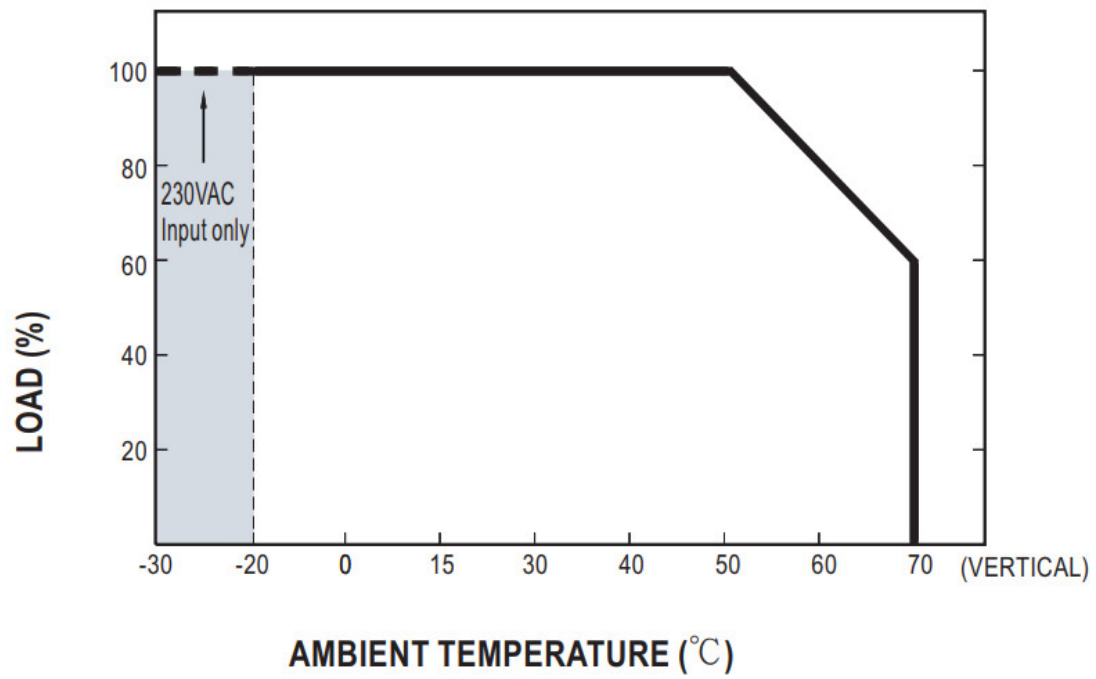
Model Encoding



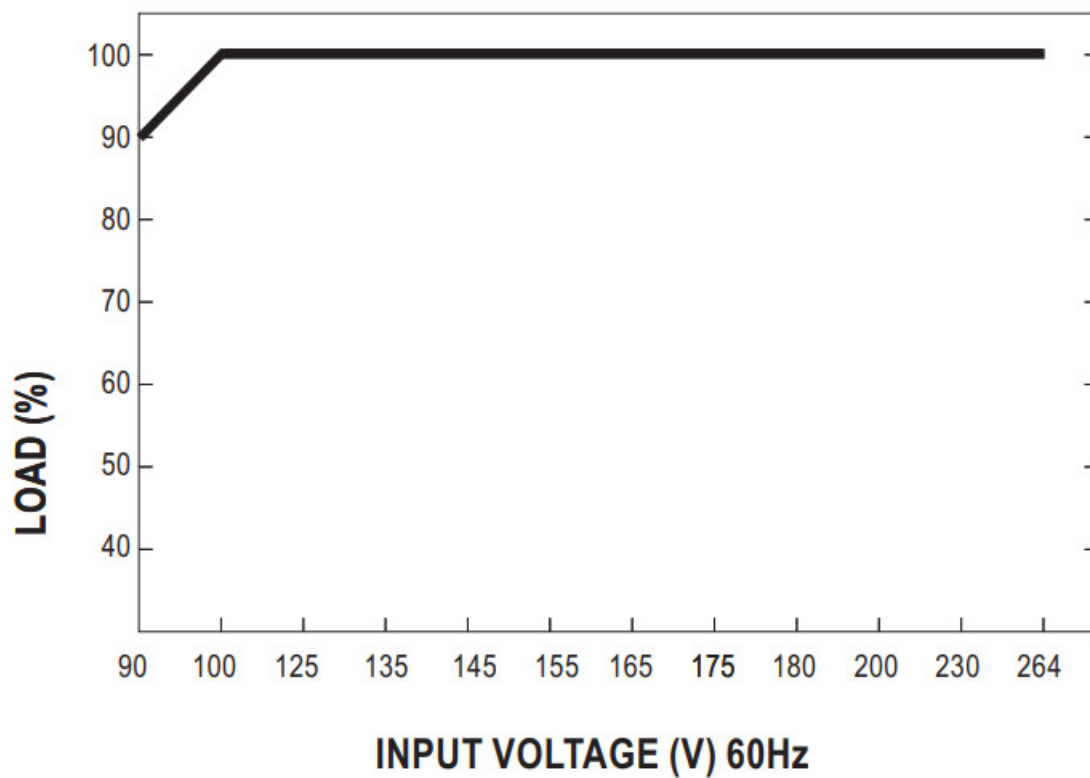
Block Diagram



Derating Curve



■ Static Characteristics



■ OUTPUT CURRENT ADJUSTMENT OPERATION

- ※ Built-in 3 in 1 current adjustment function. Output constant current level can be adjusted by applying 1 ~ 10Vdc, 10V PWM signal, or resistance between DIM+ and DIM-.
- ※ Please DO NOT connect "DIM-" to "-V".
- ※ Reference resistance value for output current adjustment (Typical)

Resistance value	Single Power supply	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100 K Ω	OPEN
	Multiple Power supplies (N=Power supply quantity for simultaneous current adjustment control)	10K Ω /N	20K Ω /N	30K Ω /N	40K Ω /N	50K Ω /N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100 K Ω /N	—
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100 %	

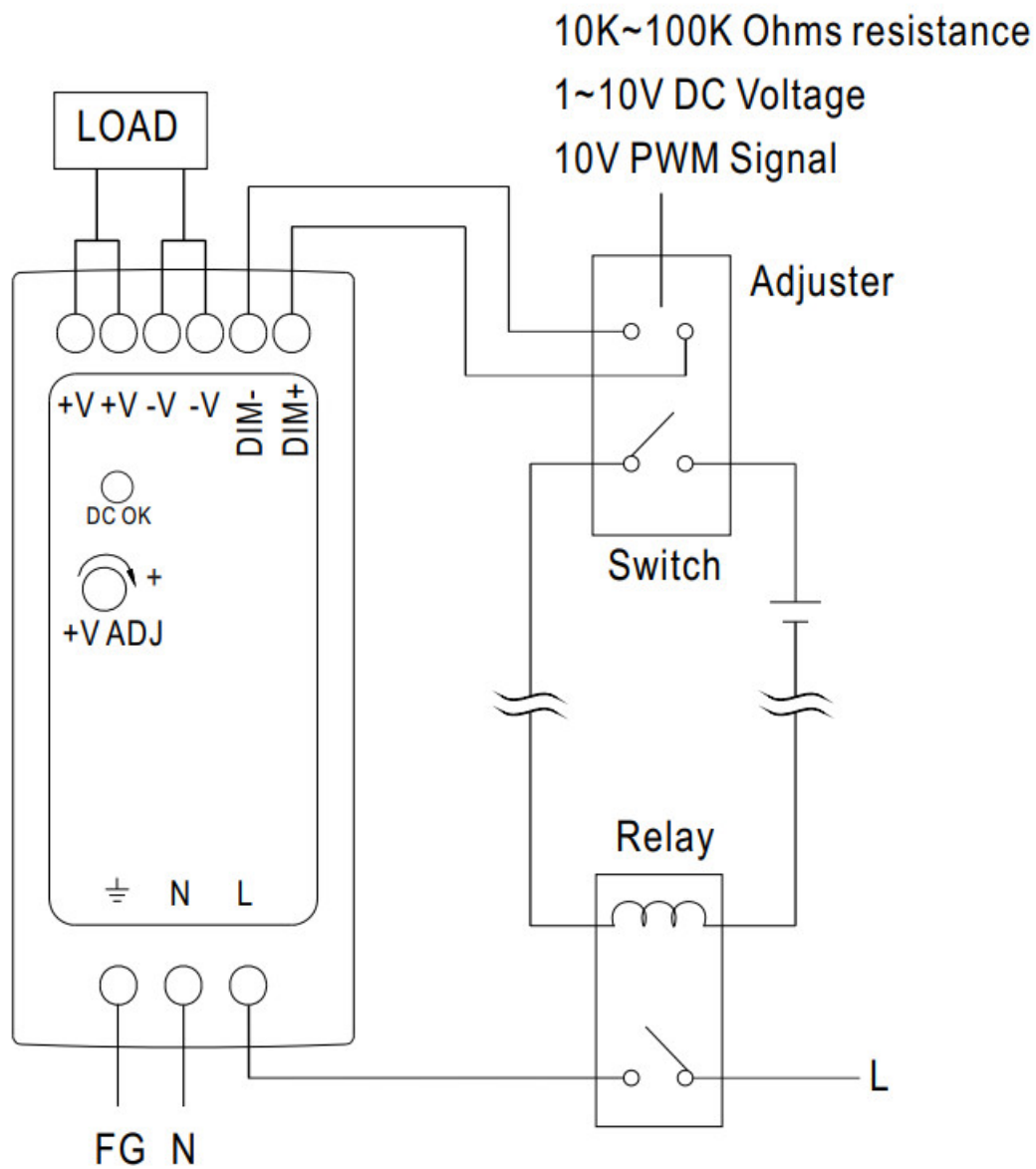
※ 1 ~ 10Vdc for output current adjustment (Typical)

Applied Source	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100 %	

※ 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

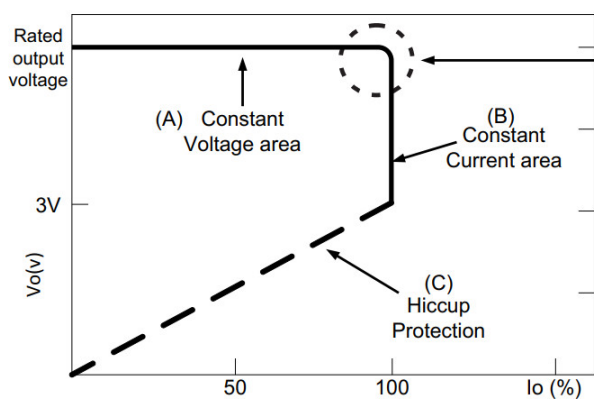
Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100 %	OPEN

※ Using the current adjustment function can not adjust the output current to 0A. Please refer to the connection method below to adjust the output current to 0A.



■ DRIVING METHODS OF APPLICATIONS

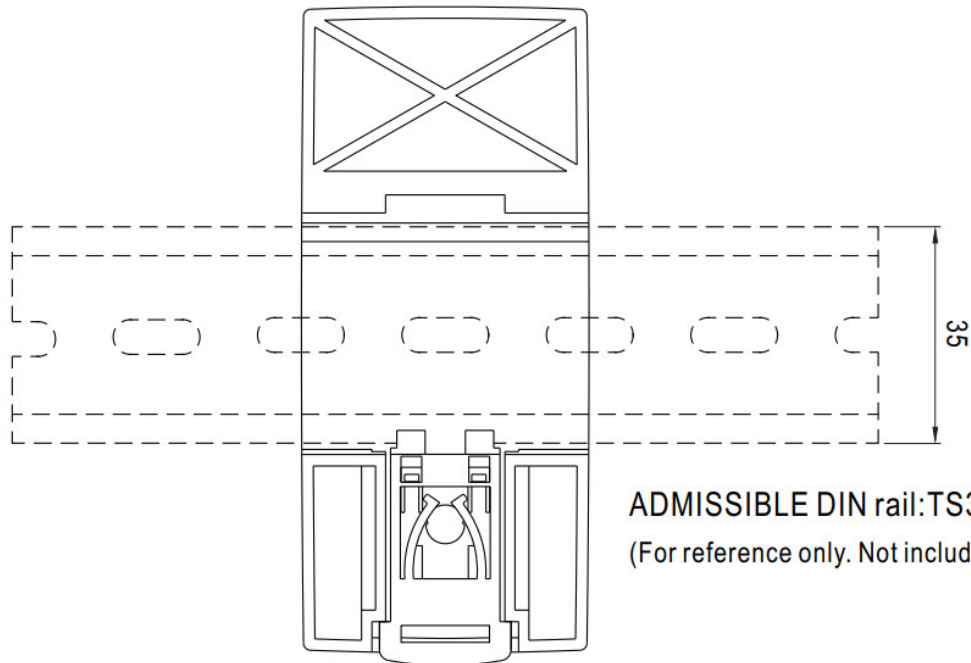
The power supply may either work in “constant voltage mode or constant current mode”



In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

■ Mechanical Specification



ADMISSIBLE DIN rail: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

Back View

This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the Instruction manual.

Installation Manual

Please refer to: <http://www.meanwell.com/manual.html>



<https://www.meanwell.com/Upload/PDF/DRA%20DIN%20rail.pdf>

File Name: DRA-60-SPEC

2021-09-15

LPS **c** **UL** **US**
UL62368-1



BS EN/EN62368-1

CB

IEC62368-1

EAC

TPTC004

CE

UK
CA

Documents / Resources



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DRA-60 Series, 60W Single Output Switching Power Supply, DRA-60 Series 60W Single Output Switching Power Supply, Output Switching Power Supply, Power Supply

References

-  [MEAN WELL Switching Power Supply Manufacturer](#)

Manuals+.