

HY SERIES (SINGLE OUTPUT)

Features:

- Constant voltage and constant current
- Voltage and current dual display
- Back light for LCD display models



General Technical Data

Mains voltage: 110/ 220VAC +/-10%, selectable

Voltage display accuracy: LCD and LED: 1.0%+2digits

Analog meter: +/-2.5% full scale

Current display accuracy: LCD and LED: 2.0%+2digits

Analog meter: +/-2.5% full scale

Line regulation: CC<0.2%+1mA

Source effect: CV<0.01%+1mV

Load Regulation: CC<0.2%+5mA

Load effects: CV<0.01%+5mV (50V: <0.01%+15mV)

Ripple & Noise: CV<1.0mVrms CC<3mArms

CV<0.5mVrms (switching types)

Specifications

Model	Output Voltage	Output Current	Display
HY3002	0 - 30V	0 - 2A	LED
HY3002D			LCD
HY3002C			Analog Meter
HY3003	0 - 30V	0 - 3A	LED
HY3003D			LCD
HY3003C			Analog Meter
HY3005	0 - 30V	0 - 5A	LED
HY3005D			LCD
HY3005C			Analog Meter
HY3006E*	0 - 30V	0 - 6A	LED
HY5002	0 - 50V	0 - 2A	LED
HY5003	0 - 50V	0 - 3A	LED
HY5005	0 - 50V	0 - 5A	LED
HY6002E*	0 - 60V	0 - 2A	LED
HY6003E*	0 - 60V	0 - 3A	LED

*Switching mode power supplies.

Notes: Switching mode power supplies have same tech spec as common linear HY series power supplies, but with much light weight, reducing the risks of damage during transportation and shipping costs. Following models are also available with switching mode types: HY3002/HY3003/HY3003D/HY3005/HY3005D/HY5002/HY5003/HY5005, For example: product code of switching mode power supply equivalent to HY3005 is HY3005E

General Technical Data

Mains voltage: 110/ 220VAC +/-10%, selectable

Voltage display accuracy: LED: 1.0%+2digits

Current display accuracy: LED: 2.0%+2digits

Line regulation: CC<0.5%+3mA

Source effect: CV<0.02%+3mV

Load regulation: CC<0.5%+20mA

Load effects: CV<0.1%+5mV

Ripple & Noise: CV<3.0mVrms CC<10mArms

CV<0.5mVrms (switching types, I<10A or equal)

CV<1.0mVrms (switching types, I>10A)

Specifications (High Current Models)

Model	Output Voltage	Output Current
HY3010	0 - 30V	0 - 10A
HY3020	0 - 30V	0 - 20A
HY3030E*	0 - 30V	0 - 30A
HY3040E*	0 - 30V	0 - 40A
HY5010E*	0 - 50V	0 - 10A
HY5020E*	0 - 50V	0 - 20A
HY10010E*	0 - 100V	0 - 10A

*Switching mode power supplies.

Notes: HY3010 and HY3020 are also available with switching mode types.



HY3003D and LCD series
single output power supplies



HY3003 and LED series
single output power supplies



HY3005C and analog meter
single output power supplies



HY3010 and high current series LED
single output power supplies

HIGH CURRENT SERIES

HY SERIES (DUAL & TRIPLE OUTPUT)

Features:

- Constant voltage and constant current
- Serial and parallel tracking function
- Voltage and current dual display for each output
- Back light for LCD display models



General Technical Data

Mains voltage: 110/ 220VAC +/-10%, selectable

Voltage display accuracy: LCD and LED: 1.0%+2digits

Analog meter: +/-2.5% full scale

Current display accuracy: LCD and LED: 2.0%+2digits

Analog meter: +/-2.5% full scale

Line regulation: CC<0.2%+1mA

Source effect: CV<0.01%+1mV

Load Regulation: CC<0.2%+5mA

Load effects: CV<0.01%+5mV (50V: <0.01%+15mV)

Fixed output <10mV

Ripple & Noise: CV<1.0mVrms CC<3mArms

CV<0.5mVrms (switching types)

Fixed output <10mV

Fixed output: Accuracy: +/-2.5%



*HY3005D-3 and LCD series
dual/triple output power supplies
(dual output power supplies are without fixed output)*

Specifications

Model	Output Voltage	Output Current	Fixed Output	Display
HY3002-2				LED
HY3002D-2	0 - 30V x 2	0 - 2A x 2	None	LCD
HY3002S-2				Analog Meter
HY3002-3				LED
HY3002D-3	0 - 30V x 2	0 - 2A x 2	5V/3A	LCD
HY3002S-3				Analog Meter
HY3003-2				LED
HY3003D-2	0 - 30V x 2	0 - 3A x 2	None	LCD
HY3003S-2				Analog Meter
HY3003-3				LED
HY3003D-3	0 - 30V x 2	0 - 3A x 2	5V/3A	LCD
HY3003S-3				Analog Meter
HY3005-2				LED
HY3005D-2	0 - 30V x 2	0 - 5A x 2	None	LCD
HY3005S-2				Analog Meter
HY3005-3				LED
HY3005D-3	0 - 30V x 2	0 - 5A x 2	5V/3A	LCD
HY3005S-3				Analog Meter
HY5002-2	0 - 50V x 2	0 - 2A x 2	None	LED
HY5003-2	0 - 50V x 2	0 - 3A x 2	None	LED
HY3006E-2*	0 - 30V x 2	0 - 6A x 2	None	LED
HY3006E-3*	0 - 30V x 2	0 - 6A x 2	5V/3A	LED
HY5005E-2*	0 - 50V x 2	0 - 5A x 2	None	LED
HY6002E-2*	0 - 60V x 2	0 - 2A x 2	None	LED
HY6003E-2*	0 - 60V x 2	0 - 3A x 2	None	LED
HY3010E-2*	0 - 30V x 2	0 - 10A x 2	None	LED

*Switching mode power supplies.

Notes:

1) Switching mode power supplies have same tech spec as common linear HY series power supplies, but with much light weight and high efficiency, reducing the risks of damage during transportation and shipping costs.

Following models are also available with switching mode types:

HY3002-2/HY3002D-2/HY3002S-2/HY3002-3/HY3002D-3/HY3002S-3
HY3003-2/HY3003D-2/HY3003S-2/HY3003-3/HY3003D-3/HY3003S-3
HY3005-2/HY3005D-2/HY3005S-2/HY3005-3/HY3005D-3/HY3005S-3
HY5002-2/HY5003-2

2) Product code of switching mode power supplies are with affix "E".

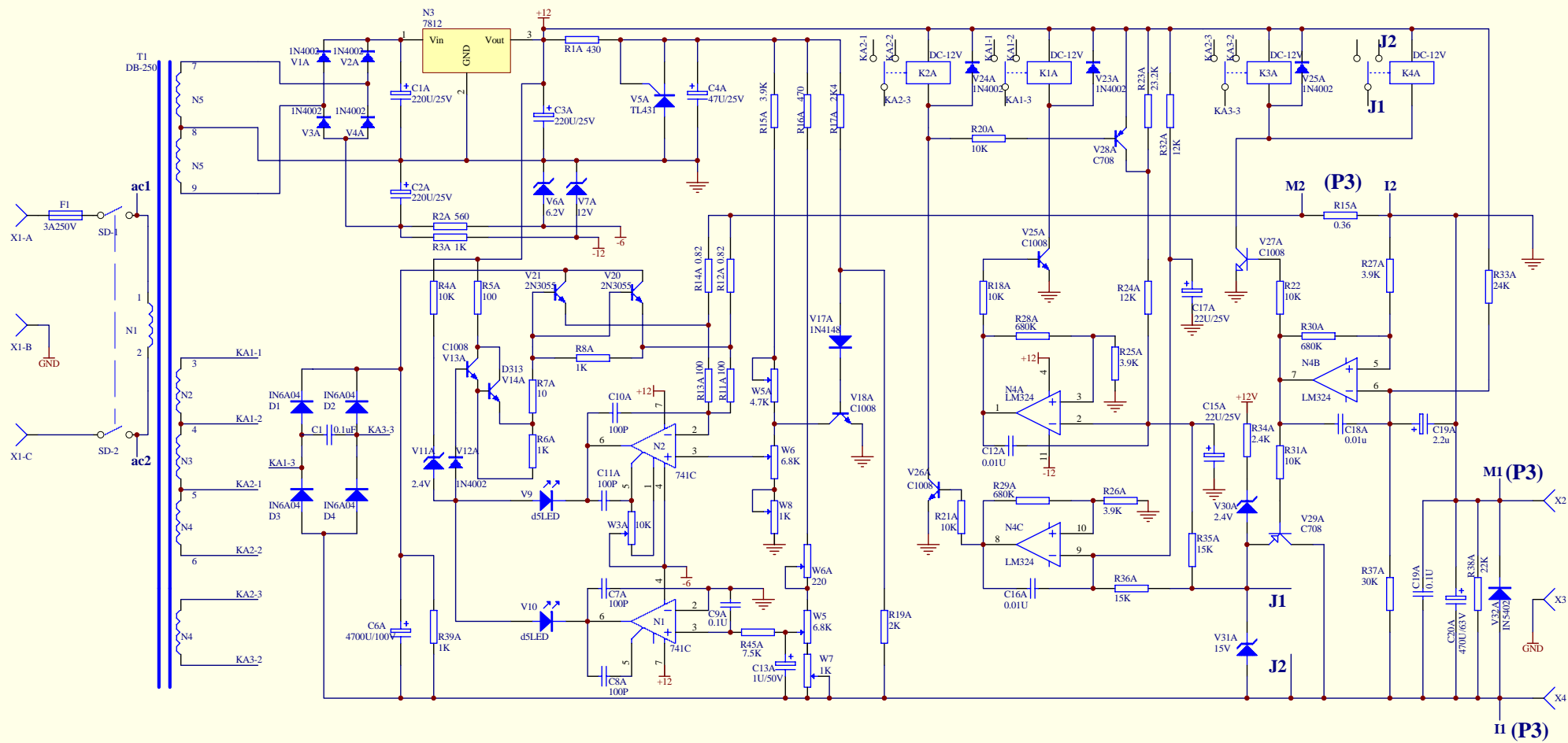
For example, product code of switching mode power supply equivalent to HY3003D-3 is HY3003DE-3.



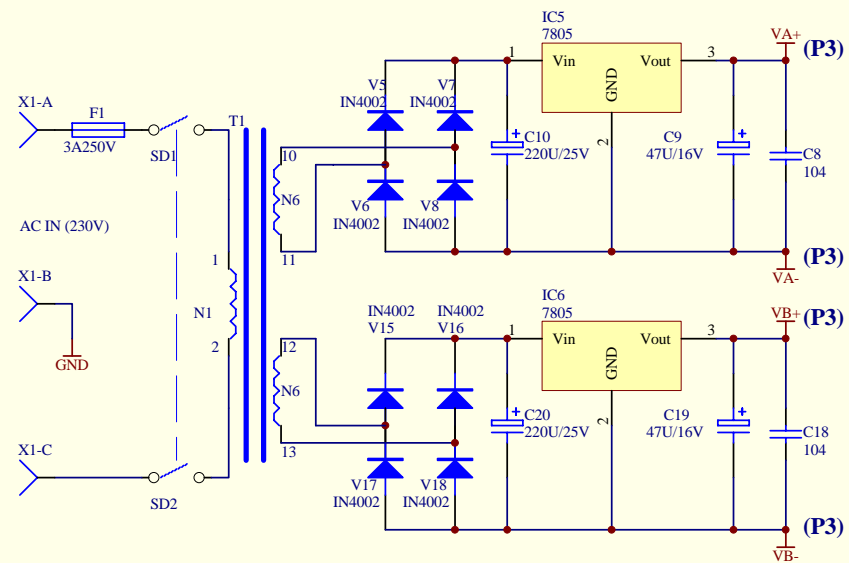
*HY3005-3 and LED series
dual/triple output power supplies
(dual output power supplies are without fixed output)*



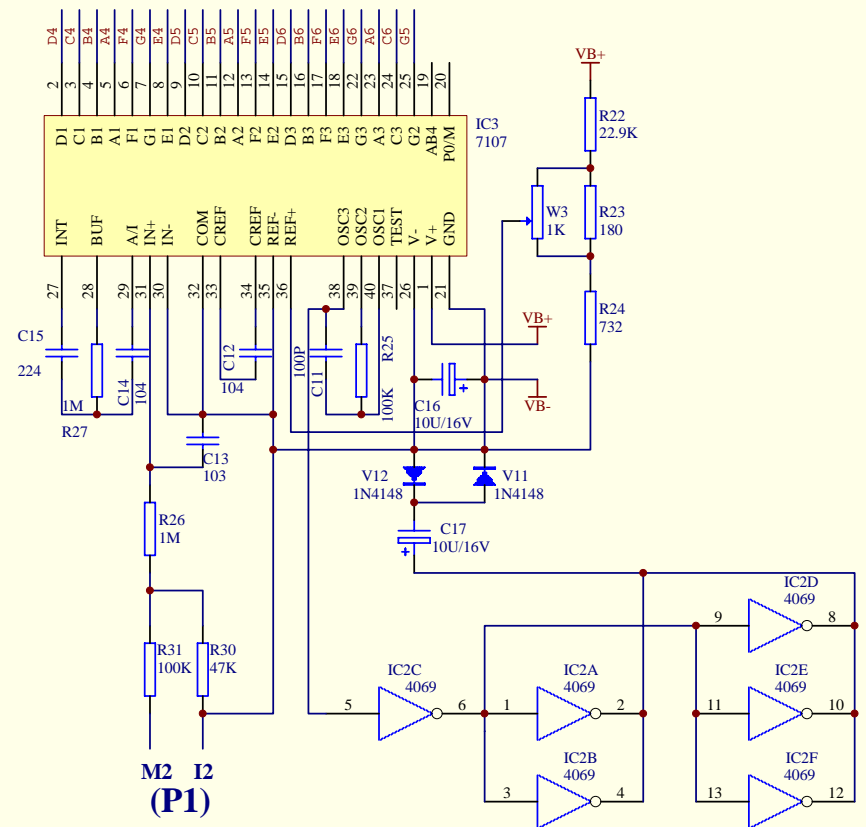
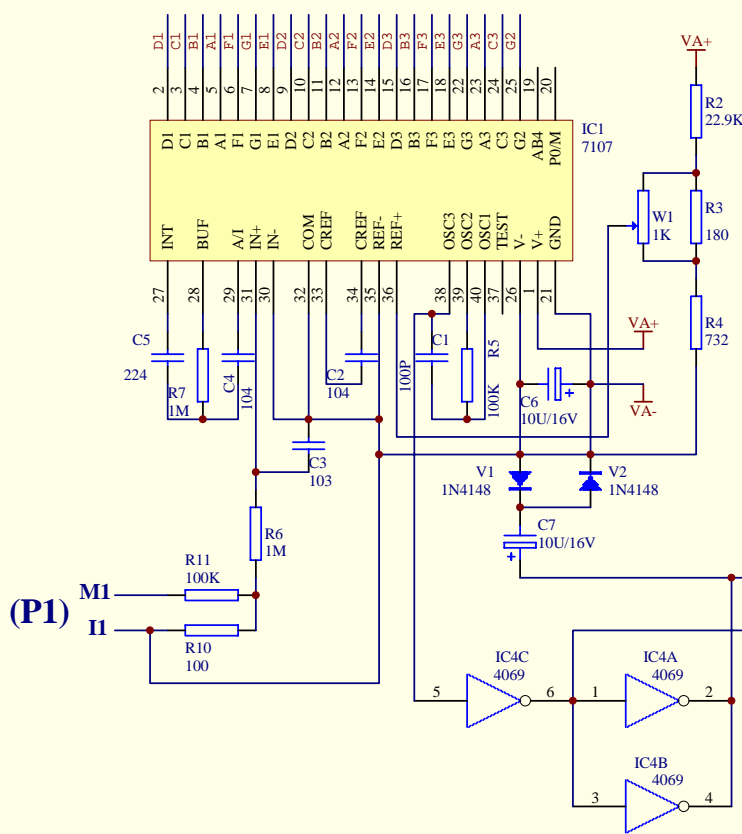
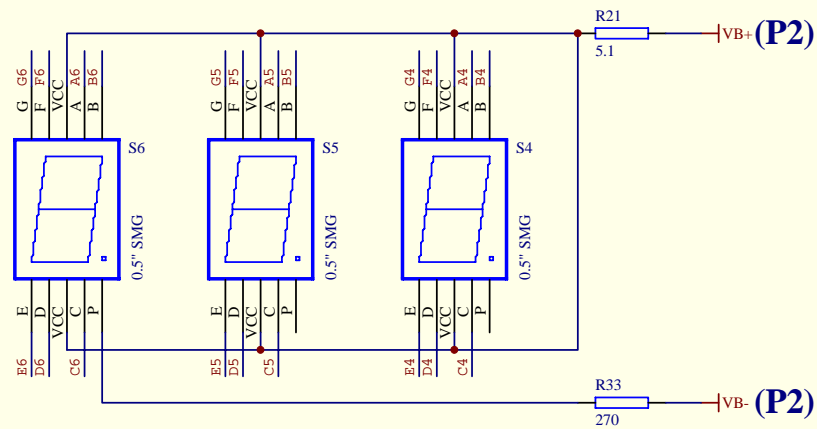
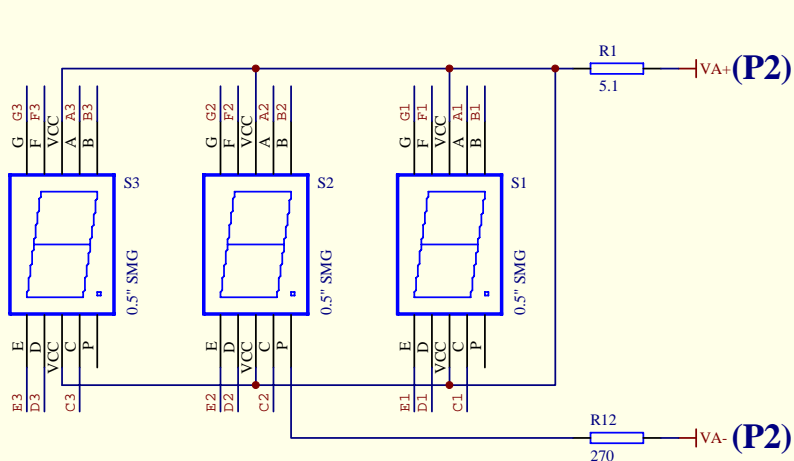
*HY3005S-3 and analog meter series
dual/triple output power supplies
(dual output power supplies are without fixed output)*



Title	HY5003 Master Circuit Diagram
Number	P1
	Only for Reference



Title	HY5003 Power Supply Circuit Diagram
Number	P2
Only for Reference	



Title	HY5003 Display Circuit Diagram
Number	P3
Only for Reference	