



DIN RAIL

POWER
NEVER ENDS

FSP launches a series of DIN Rail Products, with the mainstream power wattages - 40W, 60W, 90W and 120W, which are equipped with +12V, +24V and +48V output voltage respectively.

Due to the growing demand of industrial control devices, IoT/IIoT, Edge Computing, advanced Surveillance System and automated manufacturing, FSP offers robust DIN Rail products with the advantages of high quality metal case, OVC (Overvoltage Category) II-rating, 61010-compliant design and more. IEC61010 is more stringent than 60950/62368 norm, and has significant advantages in the safety of power supply in the industrial environment.

Din Rail Power Supply



Applications:

- Logistics System
- Industrial Manufacturing
- Transportation
- Energy Plant
- Smart Building

Feature highlights:

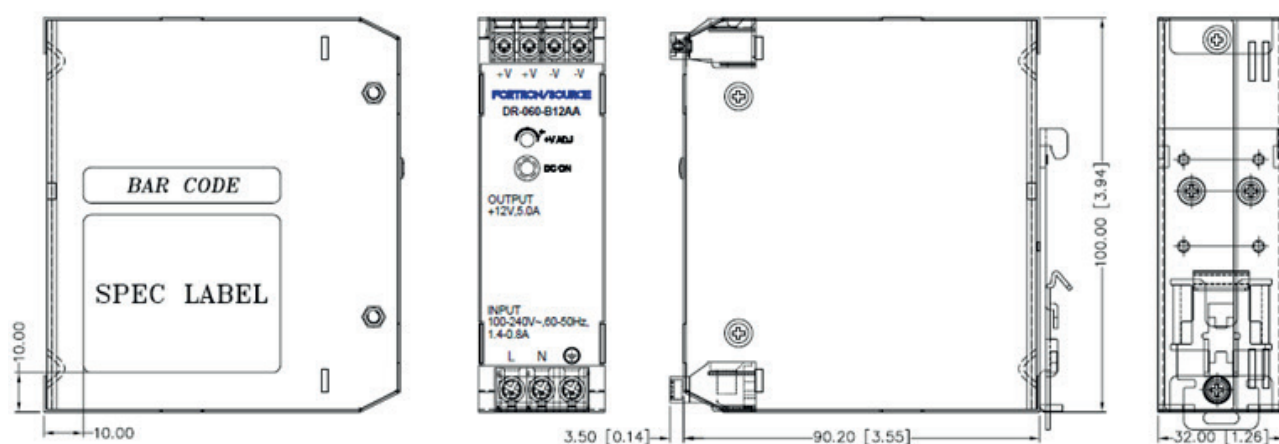
- High Quality Metal Case
- Universal AC Input / Full Range
- Compact Design, Width 32mm
- DIN Rail TS 35 x 7.5 or 15 suitable
- 12V/24V/48V with 40W~120W Output
- Voltage Adjustable
- Low Ripple/Noise
- High Efficiency with Active PFC*
- Working Temp.: -25°C ~ 70°C
- Meet OVC II Standard
- Meet IEC 61010-1 Standard
- 3 years warranty
- Global Safety Certificates



Din Rail Power Supply Part Number

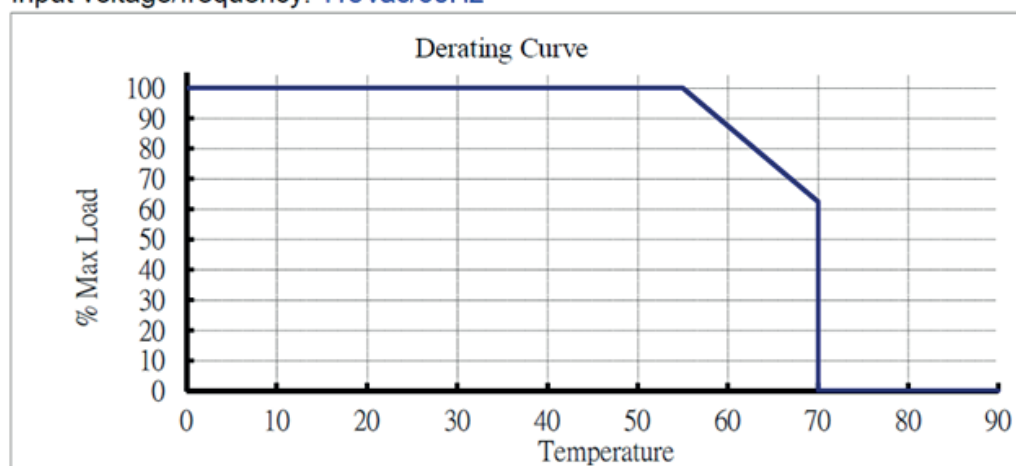
DIN RAIL Wattage	Model	PN	Input Voltage	Output Voltage	Output Current	SAFETY
40W	DR-040-B12AA	9OC0408500	115~230V AC (Voltage range: 85~264 VAC / 110~375V DC)	12V	3.34A	CB cCSAus TUV FCC EMC (IEC 61010)
	DR-040-B24AA	9OC0408600		24V	1.67A	
	DR-040-B48AA	9OC0408700		48V	0.84A	
60W	DR-060-B12AA	9OC060AQ00		12V	5A	
	DR-060-B24AA	9OC060AS00		24V	2.5A	
	DR-060-B48AA	9OC060AR00		48V	1.25A	
90W	DR-090-B12AB	9OC0902300		12V	7.5A	
	DR-090-B24AB	9OC0902500		24V	3.75A	
	DR-090-B48AB	9OC0902400		48V	1.875A	
120W	DR-120-B12AB	9OC1202800		12V	10A	
	DR-120-B24AB	9OC1203000		24V	5A	
	DR-120-B48AB	9OC1202900		48V	2.5A	

Mechanical Specifications (DR-060-B12AA)

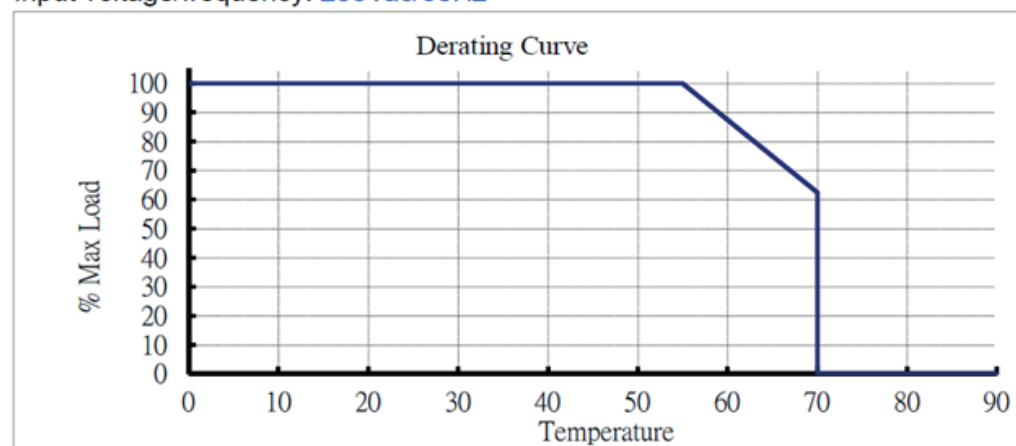


Thermal Derating Curve vs. Ambient Temperature °C

Input voltage/frequency: 115Vac/60Hz



Input voltage/frequency: 230Vac/50Hz



DIN RAIL 12V / Model Name		DR-040-B12AA	DR-060-B12AA
Capacity		40W	60W
Input	Rated Input Voltage (Single-phase two-wire)	115~230V AC (Voltage range: 85~264VAC/110~375VDC)	115~230V AC (Voltage range: 85~264VAC/110~375VDC)
	Frequency	50/60Hz	50/60Hz
	Input Current (typ.)	115V AC	<1.0A
		230V AC	<0.6A
	Inrush Current	230V AC	80A (typ.) (Ta=25°C, 230VAC Cold Start)
	Leakage Current	240V AC	<1mA
	Efficiency	115V AC	88% (Typ.) (full load)
		230V AC	88% (Typ.) (full load)
Output	Related Voltage/Current	12V DC / 3.34A	12V DC / 5A
	Adjustable Voltage Range	12~14V DC	12~14V DC
	Outout Holding Time (Typ.)	115V AC	>20ms (full load)
		230V AC	>60ms (full load)
	Start Time	115V AC	<3s
		230V AC	<2s
	Rise Time	115V AC	<30ms
		230V AC	<30ms
	Regulation	Input Fluctuation	± 1%
		Load Fluctuation	± 1%
	Ripple/Noise	<80 mVp-p	<80 mVp-p
Supplementary Functions	Overcurrent Protection	115V AC	>5A, 3S
		230V AC	>5A, 3S
	Overvoltage Protection	115V AC	>16V DC
		230V AC	>16V DC
	Related Voltage/Current	LED (Green)	LED (Green)
Dielectric Strength	Related Voltage/Current	3000V AC, 1min	3000V AC, 1min
Insulation Resistance	Related Voltage/Current	>100M ohm, 500V DC	>100M ohm, 500V DC
Operating Temperature (no freezing)		-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C	-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C
Operating Humidity		5 to 95% RH, Non-condensing	5 to 95% RH, Non-condensing
Storage Temperature		-40 ~+85°C	-40 ~+85°C
Storage Humidity		95% RH, Non-condensing	95% RH, Non-condensing
Vibration Resistance		a. Swept Sine: 3g Freq. Range; 10-250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g ² /Hz at 5Hz slopping to 0.02g ² /Hz at 20Hz, and maintain 0.02g ² /Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)	a. Swept Sine: 3g Freq. Range; 10-250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g ² /Hz at 5Hz slopping to 0.02g ² /Hz at 20Hz, and maintain 0.02g ² /Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)
Shock Resistance		Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load)	Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load)
EMC	EMI	EN55032 / CISPR 22	EN55032 / CISPR 22
	EMS	EN 55024	EN 55024
Safety Standard		EN 61010	EN 61010
Safety Certificate		CE, cCSAus, TUV, FCC	CE, cCSAus, TUV, FCC
Dimension (mm)		100*32*90 (L*W*D)	100*32*90 (L*W*D)
Weight (approx.)		330g	340g
Terminal Screw		M3	M3

DIN RAIL 12V / Model Name			DR-090-B12AB	DR-120-B12AB
Capacity			90W	120W
Input	Rated Input Voltage (Single-phase two-wire)		115~230V AC (Voltage range: 85~264VAC/110~375VDC)	115~230V AC (Voltage range: 85~264VAC/110~375VDC)
	Frequency		50/60Hz	50/60Hz
	Input Current (typ.)	115V AC	<2.0A	<2.5A
		230V AC	<1.0A	<1.2A
	Inrush Current	230V AC	100A (typ.) (Ta=25°C, 230VAC Cold Start)	100A (typ.) (Ta=25°C, 230VAC Cold Start)
	Leakage Current	240V AC	<1mA	<1mA
	Efficiency	115V AC	90% (Typ.) (full load)	90% (Typ.) (full load)
		230V AC	90% (Typ.) (full load)	90% (Typ.) (full load)
Output	Related Voltage/Current		12V DC / 7.5A	12V DC / 10A
	Adjustable Voltage Range		11.5~12.5V DC	11.5~12.5V DC
	Outout Holding Time (Typ.)	115V AC	>20ms (full load)	>20ms (full load)
		230V AC	>20ms (full load)	>20ms (full load)
	Start Time	115V AC	<3s	<3s
		230V AC	<2s	<2s
	Rise Time	115V AC	<40ms	<40ms
		230V AC	<40ms	<40ms
	Regulation	Input Fluctuation	± 2%	± 2%
		Load Fluctuation	± 2%	± 2%
Ripple/Noise		<150 mVp-p	<150 mVp-p	
Supplementary Functions	Overcurrent Protection	115V AC	>10.5A, 3S	>14A, 3S
		230V AC	>10.5A, 3S	>14A, 3S
	Overvoltage Protection	115V AC	>16V DC	>16V DC
		230V AC	>16V DC	>16V DC
	Related Voltage/Current		LED (Green)	LED (Green)
Dielectric Strength	Related Voltage/Current		3000V AC, 1min	3000V AC, 1min
Insulation Resistance	Related Voltage/Current		>100M ohm, 500V DC	>100M ohm, 500V DC
Operating Temperature (no freezing)			-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C	-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C
Operating Humidity			5 to 95% RH, Non-condensing	5 to 95% RH, Non-condensing
Storage Temperature			-40 ~+85°C	-40 ~+85°C
Storage Humidity			95% RH, Non-condensing	95% RH, Non-condensing
Vibration Resistance			a. Swept Sine: 3g Freq. Range; 10-250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)	a. Swept Sine: 3g Freq. Range; 10-250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)
Shock Resistance			Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load)	Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load)
EMC	EMI		EN55032 / CISPR 22	EN55032 / CISPR 22
	EMS		EN 55024	EN 55024
Safety Standard			EN 61010	EN 61010
Safety Certificate			CE, cCSAus, TUV, FCC	CE, cCSAus, TUV, FCC
Dimension (mm)			120*32*90 (L+W*D)	120*32*90 (L*W*D)
Weight (approx.)			470g	470g
Terminal Screw			M3, M4	M3, M4

DIN RAIL 24V / Model Name			DR-040-B24AA	DR-060-B24AA
Capacity			40W	60W
Input	Rated Input Voltage (Single-phase two-wire)		115~230V AC (Voltage range: 85~264VAC/110~375VDC)	115~230V AC (Voltage range: 85~264VAC/110~375VDC)
	Frequency		50/60Hz	50/60Hz
	Input Current (typ.)	115V AC	<1.0A	<1.4A
		230V AC	<0.6A	<0.8A
	Inrush Current	230V AC	80A (typ.) (Ta=25°C, 230VAC Cold Start)	80A (typ.) (Ta=25°C, 230VAC Cold Start)
	Leakage Current	240V AC	<1mA	<1mA
	Efficiency	115V AC	89% (Typ.) (full load)	89% (Typ.) (full load)
230V AC		89% (Typ.) (full load)	89% (Typ.) (full load)	
Output	Related Voltage/Current		24V DC / 1.67A	24V DC / 2.5A
	Adjustable Voltage Range		22~27V DC	22~27V DC
	Outout Holding Time (Typ.)	115V AC	>20ms (full load)	>20ms (full load)
		230V AC	>60ms (full load)	>60ms (full load)
	Start Time	115V AC	<3s	<3s
		230V AC	<2s	<2s
	Rise Time	115V AC	<40ms	<40ms
		230V AC	<40ms	<40ms
	Regulation	Input Fluctuation	± 1%	± 1%
		Load Fluctuation	± 1%	± 1%
Ripple/Noise		<120 mVp-p	<120 mVp-p	
Supplementary Functions	Overcurrent Protection	115V AC	>2.5A, 3S	>3.75A, 3s
		230V AC	>2.5A, 3S	>3.75A, 3s
	Overvoltage Protection	115V AC	>35V DC	>35V DC
		230V AC	>35V DC	>35V DC
Related Voltage/Current		LED (Green)	LED (Green)	
Dielectric Strength	Related Voltage/Current		3000V AC, 1min	3000V AC, 1min
Insulation Resistance	Related Voltage/Current		>100M ohm, 500V DC	>100M ohm, 500V DC
Operating Temperature (no freezing)			-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C	-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C
Operating Humidity			5 to 95% RH, Non-condensing	5 to 95% RH, Non-condensing
Storage Temperature			-40 ~+85°C	-40 ~+85°C
Storage Humidity			95% RH, Non-condensing	95% RH, Non-condensing
Vibration Resistance			a. Swept Sine: 3g Freq. Range; 10- 250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis (full load)	a. Swept Sine: 3g Freq. Range; 10- 250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)
Shock Resistance			Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half- sine wave pulse in both directions on three mutually perpendicular axis. (full load)	Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half- sine wave pulse in both directions on three mutually perpendicular axis. (full load)
EMC	EMI		EN55032 / CISPR 22	EN55032 / CISPR 22
	EMS		EN 55024	EN 55024
Safety Standard			EN 61010	EN 61010
Safety Certificate			CE, cCSAus, TUV, FCC	CE, cCSAus, TUV, FCC
Dimension (mm)			100*32*90 (L*W*D)	100*32*90 (L*W*D)
Weight (approx.)			330g	340g
Terminal Screw			M3	M3

DIN RAIL 24V / Model Name			DR-090-B24AB	DR-120-B24AB
Capacity			90W	120W
Input	Rated Input Voltage (Single-phase two-wire)		115~230V AC (Voltage range: 85~264VAC/110~375VDC)	115~230V AC (Voltage range: 85~264VAC/110~375VDC)
	Frequency		50/60Hz	50/60Hz
	Input Current (typ.)	115V AC	<2.0A	<2.5A
		230V AC	<1.0A	<1.2A
	Inrush Current		230V AC 100A (typ.) (Ta=25°C, 230VAC Cold Start)	100A (typ.) (Ta=25°C, 230VAC Cold Start)
	Leakage Current		240V AC <1mA	<1mA
	Efficiency	115V AC	90% (Typ.) (full load)	90% (Typ.) (full load)
230V AC		90% (Typ.) (full load)	90% (Typ.) (full load)	
Output	Related Voltage/Current		24V DC / 3.75A	24V DC / 5A
	Adjustable Voltage Range		23.5~25V DC	23.5~25V DC
	Outout Holding Time (Typ.)	115V AC	>20ms (full load)	>20ms (full load)
		230V AC	>20ms (full load)	>20ms (full load)
	Start Time	115V AC	<3s	<3s
		230V AC	<2s	<2s
	Rise Time	115V AC	<40ms	<40ms
		230V AC	<40ms	<40ms
	Regulation	Input Fluctuation	± 2%	± 2%
		Load Fluctuation	± 2%	± 2%
Ripple/Noise		<240 mVp-p	<240 mVp-p	
Supplementary Functions	Overcurrent Protection	115V AC	>5.25A, 3S	>7A, 3S
		230V AC	>5.25A, 3S	>7A, 3S
	Overvoltage Protection	115V AC	>35V DC	>35V DC
		230V AC	>35V DC	>35V DC
	Related Voltage/Current		LED (Green)	LED (Green)
Dielectric Strength	Related Voltage/Current		3000V AC, 1min	3000V AC, 1min
Insulation Resistance	Related Voltage/Current		>100M ohm, 500V DC	>100M ohm, 500V DC
Operating Temperature (no freezing)			-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C	-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C
Operating Humidity			5 to 95% RH, Non-condensing	5 to 95% RH, Non-condensing
Storage Temperature			-40 ~+85°C	-40 ~+85°C
Storage Humidity			95% RH, Non-condensing	95% RH, Non-condensing
Vibration Resistance			a. Swept Sine: 3g Freq. Range; 10- 250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)	a. Swept Sine: 3g Freq. Range; 10- 250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)
Shock Resistance			Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half- sine wave pulse in both directions on three mutually perpendicular axis. (full load)	Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half- sine wave pulse in both directions on three mutually perpendicular axis. (full load)
EMC	EMI		EN55032 / CISPR 22	EN55032 / CISPR 22
	EMS		EN 55024	EN 55024
Safety Standard			EN 61010	EN 61010
Safety Certificate			CE, cCSAus, TUV, FCC	CE, cCSAus, TUV, FCC
Dimension (mm)			120*32*90 (L+W*D)	120*32*90 (L*W*D)
Weight (approx.)			470g	470g
Terminal Screw			M3, M4	M3, M4

DIN RAIL 48V / Model Name			DR-040-B48AA	DR-060-B48AA
Capacity			40W	60W
Input	Rated Input Voltage (Single-phase two-wire)		115~230V AC (Voltage range: 85~264VAC/110~375VDC)	115~230V AC (Voltage range: 85~264VAC/110~375VDC)
	Frequency		50/60Hz	50/60Hz
	Input Current (typ.)	115V AC	<1.0A	<1.4A
		230V AC	<0.6A	<0.8A
	Inrush Current	230V AC	80A (typ.) (Ta=25°C, 230VAC Cold Start)	80A (typ.) (Ta=25°C, 230VAC Cold Start)
	Leakage Current	240V AC	<1mA	<1mA
	Efficiency	115V AC	89% (Typ.) (full load)	89% (Typ.) (full load)
230V AC		89% (Typ.) (full load)	89% (Typ.) (full load)	
Output	Related Voltage/Current		48V DC / 0.84A	48V DC / 1.25A
	Adjustable Voltage Range		46~50V DC	46~50V DC
	Outout Holding Time (Typ.)	115V AC	>20ms (full load)	>20ms (full load)
		230V AC	>60ms (full load)	>60ms (full load)
	Start Time	115V AC	<3s	<3s
		230V AC	<2s	<2s
	Rise Time	115V AC	<60ms	<60ms
		230V AC	<60ms	<60ms
	Regulation	Input Fluctuation	± 1%	± 1%
Load Fluctuation		± 1%	± 1%	
Ripple/Noise		<240 mVp-p	<240 mVp-p	
Supplementary Functions	Overcurrent Protection	115V AC	>1.25A, 3S	>1.87A, 3S
		230V AC	>1.25A, 3S	>1.87A, 3S
	Overvoltage Protection	115V AC	>57V DC	>57V DC
		230V AC	>57V DC	>57V DC
	Related Voltage/Current		LED (Green)	LED (Green)
Dielectric Strength	Related Voltage/Current		3000V AC, 1min	3000V AC, 1min
Insulation Resistance	Related Voltage/Current		>100M ohm, 500V DC	>100M ohm, 500V DC
Operating Temperature (no freezing)			-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C	-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C
Operating Humidity			5 to 95% RH, Non-condensing	5 to 95% RH, Non-condensing
Storage Temperature			-40 ~+85°C	-40 ~+85°C
Storage Humidity			95% RH, Non-condensing	95% RH, Non-condensing
Vibration Resistance			a. Swept Sine: 3g Freq. Range; 10- 250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)	a. Swept Sine: 3g Freq. Range; 10- 250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)
Shock Resistance			Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half- sine wave pulse in both directions on three mutually perpendicular axis. (full load)	Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half- sine wave pulse in both directions on three mutually perpendicular axis. (full load)
EMC	EMI		EN55032 / CISPR 22	EN55032 / CISPR 22
	EMS		EN 55024	EN 55024
Safety Standard			EN 61010	EN 61010
Safety Certificate			CE, cCSAus, TUV, FCC	CE, cCSAus, TUV, FCC
Dimension (mm)			100*32*90 (L*W*D)	100*32*90 (L*W*D)
Weight (approx.)			330g	340g
Terminal Screw			M3	M3

DIN RAIL 48V / Model Name			DR-090-B48AB	DR-120-B48AB
Capacity			90W	120W
Input	Rated Input Voltage (Single-phase two-wire)		115~230V AC (Voltage range: 85~264VAC/110~375VDC)	115~230V AC (Voltage range: 85~264VAC/110~375VDC)
	Frequency		50/60Hz	50/60Hz
	Input Current (typ.)	115V AC	<2.0A	<2.5A
		230V AC	<1.0A	<1.2A
	Inrush Current		100A (typ.) (Ta=25°C, 230VAC Cold Start)	100A (typ.) (Ta=25°C, 230VAC Cold Start)
	Leakage Current		240V AC <1mA	<1mA
	Efficiency	115V AC	90% (Typ.) (full load)	90% (Typ.) (full load)
230V AC		90% (Typ.) (full load)	90% (Typ.) (full load)	
Output	Related Voltage/Current		48V DC / 1.875A	48V DC / 2.5A
	Adjustable Voltage Range		47.5~49.5V DC	47.5~49.5V DC
	Outout Holding Time (Typ.)	115V AC	>20ms (full load)	>20ms (full load)
		230V AC	>20ms (full load)	>20ms (full load)
	Start Time	115V AC	<3s	<3s
		230V AC	<2s	<2s
	Rise Time	115V AC	<40ms	<40ms
		230V AC	<40ms	<40ms
	Regulation	Input Fluctuation	± 2%	± 2%
		Load Fluctuation	± 2%	± 2%
Ripple/Noise		<300 mVp-p	<300 mVp-p	
Supplementary Functions	Overcurrent Protection	115V AC	>2.62A, 3S	>3.5A, 3S
		230V AC	>2.62A, 3S	>3.5A, 3S
	Overvoltage Protection	115V AC	>63V DC	>63V DC
		230V AC	>63V DC	>63V DC
	Related Voltage/Current		LED (Green)	LED (Green)
Dielectric Strength	Related Voltage/Current		3000V AC, 1min	3000V AC, 1min
Insulation Resistance	Related Voltage/Current		>100M ohm, 500V DC	>100M ohm, 500V DC
Operating Temperature (no freezing)			-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C	-25 ~+70°C >55 deg.C De-rate output power by 2.5%/deg. C
Operating Humidity			5 to 95% RH, Non-condensing	5 to 95% RH, Non-condensing
Storage Temperature			-40 ~+85°C	-40 ~+85°C
Storage Humidity			95% RH, Non-condensing	95% RH, Non-condensing
Vibration Resistance			a. Swept Sine: 3g Freq. Range; 10- 250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)	a. Swept Sine: 3g Freq. Range; 10- 250Hz test duration; 15 min. for each X,Y,Z axis (full load) b. 0.01g²/Hz at 5Hz slopping to 0.02g²/Hz at 20Hz, and maintain 0.02g²/Hz from 20Hz~500Hz PSD=3.13grms, 15min./axis(full load)
Shock Resistance			Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half- sine wave pulse in both directions on three mutually perpendicular axis. (full load)	Operating: All sides except top; 10G, 11mSec. Half-sine wave pulse in both directions on three mutually perpendicular axis. (full load) Storage: All 6 sides; 40G,6mSec. Half- sine wave pulse in both directions on three mutually perpendicular axis. (full load)
EMC	EMI	EN55032 / CISPR 22		EN55032 / CISPR 22
	EMS	EN 55024		EN 55024
Safety Standard			EN 61010	EN 61010
Safety Certificate			CE, cCSAus, TUV, FCC	CE, cCSAus, TUV, FCC
Dimension (mm)			120*32*90 (L+W*D)	120*32*90 (L*W*D)
Weight (approx.)			470g	470g
Terminal Screw			M3. M4	M3. M4



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