



Announcement

May 2021

Product discontinuation: PS3X series switching power supplies

IDEC would like to inform you that we will discontinue our PS3X series switching power supplies.



1. Products to be discontinued

We will discontinue all products of our PS3X series switching power supplies.

Output capacity	Output voltage	Horizontal terminal	Vertical terminal
		Part number	Part number
15W	5V	PS3X-B05AFC	-
	12V	PS3X-B12AFC	-
	24V	PS3X-B24AFC	-
25W	5V	PS3X-C05AFC	-
	12V	PS3X-C12AFC	-
	24V	PS3X-C24AFC	-
50W	12V	PS3X-D12AFC	PS3X-D12AFG
	24V	PS3X-D24AFC	PS3X-D24AFG
75W	5V	PS3X-Q05AFC	PS3X-Q05AFG
	12V	PS3X-Q12AFC	PS3X-Q12AFG
	24V	PS3X-Q24AFC	PS3X-Q24AFG
100W	5V	PS3X-E05AFC	PS3X-E05AFG
	12V	PS3X-E12AFC	PS3X-E12AFG
	24V	PS3X-E24AFC	PS3X-E24AFG

Note: Special products are also included.

2. Recommended replacements

PS3V series switching power supplies to be launched in **June 2021**.

Notes:

- PS3V series will not have vertical terminal type.
- Please refer to the replacement list on p.2.
- Regarding the specification differences, please refer to the replacement manual "From PS3X series switching power supplies to PS3V series switching power supplies (20-SMBE103_4)".

3. Schedule

- Discontinued date: Immediately while supplies last.

Note: We will not provide the discontinued products for maintenance.



Announcement

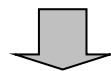
Replacement list: PS3X series to PS3V series

Products to be discontinued: PS3X			Recommended replacements: PS3V		
Part number	Output capacity	Terminal	Part number	Output capacity	Terminal
PS3X-B05AFC	15W	Horizontal	PS3V-015AF05C	15W	Horizontal
PS3X-B12AFC	15W	Horizontal	PS3V-015AF12C	15W	Horizontal
PS3X-B24AFC	15W	Horizontal	PS3V-015AF24C	15W	Horizontal
PS3X-C05AFC	25W	Horizontal	PS3V-030AF05C	30W	Horizontal
PS3X-C12AFC	25W	Horizontal	PS3V-030AF12C	30W	Horizontal
PS3X-C24AFC	25W	Horizontal	PS3V-030AF24C	30W	Horizontal
PS3X-D12AFC	50W	Horizontal	PS3V-050AF12C	50W	Horizontal
PS3X-D12AFG	50W	Vertical			
PS3X-D24AFC	50W	Horizontal	PS3V-050AF24C	50W	Horizontal
PS3X-D24AFG	50W	Vertical			
PS3X-Q24AFC	75W	Horizontal	PS3V-100AF24C	100W	Horizontal
PS3X-Q24AFG	75W	Vertical			
PS3X-E24AFC	100W	Horizontal			
PS3X-E24AFG	100W	Vertical			
PS3X-Q05AFC	75W	Horizontal	No recommended replacements (PS3V series does not have products that the output capacity is 100W and output voltage is 5V or 12V)		
PS3X-Q05AFG	75W	Vertical			
PS3X-Q12AFC	75W	Horizontal			
PS3X-Q12AFG	75W	Vertical			
PS3X-E05AFC	100W	Horizontal			
PS3X-E05AFG	100W	Vertical			
PS3X-E12AFC	100W	Horizontal			
PS3X-E12AFG	100W	Vertical			

From PS3X series switching power supplies to
PS3V series switching power supplies

Replacement Manual

Issue No. 20-SMBE103_4



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■ About this document

This document is a manual for replacing PS3X series switching power supplies with the PS3V series switching power supplies.

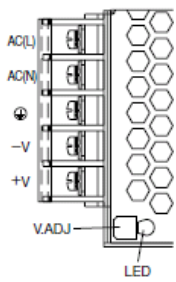
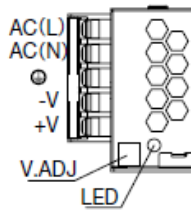
■ Replacement with PS3V series

- Dimensions are different between PS3X series and PS3V series. Refer to [Dimensions in page 16].
- Derating characteristics are different between PS3X series and PS3V series. Refer to [Derating curves, overcurrent protection characteristics in page 15].
- PS3V series does not have vertical terminal type.
- PS3V series cannot be used on DC input.

Replacement list (PS3X series -> PS3Vseries)

PS3X			PS3V		
Part number	Output capacity	Terminal	Part number	Output capacity	Terminal
PS3X-B05AFC	15W	Horizontal	PS3V-015AF05C	15W	Horizontal
PS3X-B12AFC	15W	Horizontal	PS3V-015AF12C	15W	Horizontal
PS3X-B24AFC	15W	Horizontal	PS3V-015AF24C	15W	Horizontal
PS3X-C05AFC	25W	Horizontal	PS3V-030AF05C	30W	Horizontal
PS3X-C12AFC	25W	Horizontal	PS3V-030AF12C	30W	Horizontal
PS3X-C24AFC	25W	Horizontal	PS3V-030AF24C	30W	Horizontal
PS3X-D12AFC	50W	Horizontal	PS3V-050AF12C	50W	Horizontal
PS3X-D12AFG	50W	Vertical			
PS3X-D24AFC	50W	Horizontal	PS3V-050AF24C	50W	Horizontal
PS3X-D24AFG	50W	Vertical			
PS3X-Q24AFC	75W	Horizontal	PS3V-100AF24C	100W	Horizontal
PS3X-Q24AFG	75W	Vertical			
PS3X-E24AFC	100W	Horizontal			
PS3X-E24AFG	100W	Vertical			
PS3X-Q05AFC	75W	Horizontal	No recommended replacements (PS3V series does not have products that the output capacity is 100W and output voltage is 5V or 12V)		
PS3X-Q05AFG	75W	Vertical			
PS3X-Q12AFC	75W	Horizontal			
PS3X-Q12AFG	75W	Vertical			
PS3X-E05AFC	100W	Horizontal			
PS3X-E05AFG	100W	Vertical			
PS3X-E12AFC	100W	Horizontal			
PS3X-E12AFG	100W	Vertical			

Comparison of specifications (PS3X-B05AFC -> PS3V-015AF05C)

Description		PS3X-B05AFC	PS3V-015AF05C		
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 85 to 264V AC/120 to 375V DC (*1))	100 to 240V AC (Voltage Range: 85 to 264V AC)		
	Frequency	47Hz to 63Hz	47Hz to 63Hz		
	Input Current	0.5A max.	100V: 0.32A(Typ.), 230V: 0.2A(Typ.) (at rated output)		
	Inrush Current	40A max. (at 115V AC), 60A max. (at 230V AC) (*2)	40A typ. (at 100V AC), 60A typ. (at 230V AC) (*2)		
	Leakage Current	0.5mA max.	120V: 0.5mA max., 240V: 1mA max.		
	Efficiency (Typ.)	77%(230V AC at input/rated output)	77% (100VAC), 76% (230VAC) (at rated output)		
Output	Rated Voltage/Current	5V, 3A	5V, 3A		
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)		
	Output Holding Time	13 ms typ. (100V AC), 60 ms min. (230V AC) (at rated output)	15 ms typ. (100V AC), 120 ms typ. (230V AC) (at rated output)		
	Start Time	1000 ms max.(230V AC input, rated output)	650 ms max. (at rated input and output)		
	Rise Time	50 ms max.(230V AC input, rated output)	300 ms max. (at rated input and output)		
	Regulation	Input Fluctuation	0.5% max.	0.4% max.	
		Load Fluctuation	±2% max.	1% max.	
		Temperature Fluctuation	0.04%/°Cmax.(-20 to 50°C)	0.05%/°Cmax.(-10 to 50°C)	
		Ripple (including noise)	-25 to -10°C	200 mV max. (-20 to -10°C)	8% p-p max.
			-10 to 0°C	160 mV max.	5% p-p max.
0 to 50°C	100 mV max.		2.5% p-p max.		
Supplementary Functions	Overcurrent Protection	105% min.(auto reset) (*3)	105% min.(auto reset) (*3)		
	Overvoltage Protection	Voltage limitation at 115% min.	Intermittent operation, auto reset at 120% min.		
	Operation Indicator	LED (green)	LED (green)		
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute		
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)		
Operating Temperature		-20 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)		
Storage Temperature		-40 to 85°C(no freezing)	-25 to 75°C(no freezing)		
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)		
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes		
Shock Resistance		200m/s ² , 1 shock each in 6 axes	200 m/s ² , 11ms, 1 shock each in 6 axes		
Structure	Dimensions (mm)	50.8H x 28W x 62D	50.8H x 34W x 65D		
	Weight (approx.)	130g	135g		
	Terminal Screw	M3	M3		
	Terminal Arrangement				

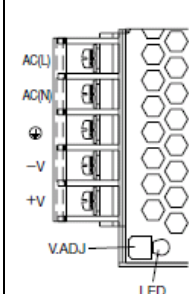
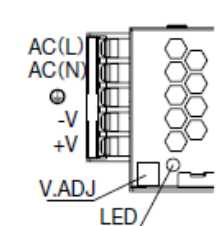
*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.

When using on DC input, connect a fuse to the input terminal for DC input protection.

*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

Comparison of specifications (PS3X-B12AFC -> PS3V-015AF12C)

Description		PS3X-B12AFC	PS3V-015AF12C		
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 85 to 264V AC/120 to 375V DC (*1))	100 to 240V AC (Voltage Range: 85 to 264V AC)		
	Frequency	47Hz to 63Hz	47Hz to 63Hz		
	Input Current	0.5A max.	100V: 0.32A(Typ.), 230V: 0.2A(Typ.) (at rated output)		
	Inrush Current	40A max. (at 115V AC), 60A max. (at 230V AC) (*2)	40A typ. (at 100V AC), 60A typ. (at 230V AC) (*2)		
	Leakage Current	0.5mA max.	120V: 0.5mA max., 240V: 1mA max.		
	Efficiency (Typ.)	81% (230V AC at input/rated output)	82%/100VAC, 81%/230VAC (at rated output)		
Output	Rated Voltage/Current	12V, 1.3A	12V, 1.3A		
	Adjustable Voltage Range	±10%	±10%(Adjustable by front and V.ADJ volume)		
	Output Holding Time	13 ms typ. (100V AC), 60 ms min. (230V AC) (at rated output)	15 ms typ. (100V AC), 120 ms typ. (230V AC) (at rated output)		
	Start Time	1000 ms max. (230V AC input, rated output)	650 ms max. (at rated input and output)		
	Rise Time	50 ms max. (230V AC input, rated output)	300 ms max. (at rated input and output)		
	Regulation	Input Fluctuation	0.5% max.	0.4%max.	
		Load Fluctuation	±1% max.	1%max.	
		Temperature Fluctuation	0.04%/°C max.(-20 to 50°C)	0.05%/°Cmax.(-10 to 50°C)	
		Ripple (including noise)	-25 to -10°C	200 mV max. (-20 to -10°C)	6% p-p max.
			-10 to 0°C	200 mV max.	2.5% p-p max.
0 to 50°C	150 mV max.		1.5% p-p max.		
Supplementary Functions	Overcurrent Protection	105% min.(auto reset) (*3)	105% min.(auto reset) (*3)		
	Overvoltage Protection	Voltage limitation at 115% min.	Intermittent operation, auto reset at 120% min.		
	Operation Indicator	LED (green)	LED (green)		
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute		
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)		
Operating Temperature		-20 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)		
Storage Temperature		-40 to 85°C(no freezing)	-25 to +75°C(no freezing)		
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)		
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2hours each in X, Y, Z axes		
Shock Resistance		200m/s ² , 1 shock each in 6 axes	200m/s ² , 11ms, 1 shock each in 6 axes		
Structure	Dimensions (mm)	50.8H x 28W x 62D	50.8H x 34W x 65D		
	Weight (approx.)	130g	135g		
	Terminal Screw	M3	M3		
	Terminal Arrangement				

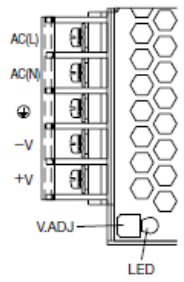
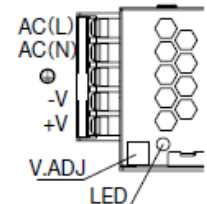
*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.

When using on DC input, connect a fuse to the input terminal for DC input protection.

*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

Comparison of specifications (PS3X-B24AFC -> PS3V-015AF24C)

Description		PS3X-B24AFC	PS3V-015AF24C		
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 85 to 264V AC/120 to 375V DC (*1))	100 to 240V AC (Voltage Range: 85 to 264V AC)		
	Frequency	47Hz to 63Hz	47Hz to 63Hz		
	Input Current	0.5A max.	100V: 0.32A(Typ.), 230V: 0.2A(Typ.) (at rated output)		
	Inrush Current	40A max. (at 115V AC), 60A max. (at 230V AC) (*2)	40A typ. (at 100V AC), 60A typ. (at 230V AC) (*2)		
	Leakage Current	0.5mA max.	120V: 0.5mA max., 240V: 1mA max.		
	Efficiency (Typ.)	82% (230V AC at input/rated output)	84%/100V AC, 83%/230V AC (at rated output)		
Output	Rated Voltage/Current	24V, 0.63A	24V, 0.63A		
	Adjustable Voltage Range	±10%	±10%(Adjustable by front and V.ADJ volume)		
	Output Holding Time	13ms typ. (100V AC), 60ms min. (230V AC) (at rated output)	20 ms typ. (100V AC), 130 ms typ. (230V AC) (at rated output)		
	Start Time	1000 ms max. (230V AC input, rated output)	650 ms max. (at rated input and output)		
	Rise Time	50 ms max. (230V AC input, rated output)	300 ms max. (at rated input and output)		
	Regulation	Input Fluctuation	0.5% max.	0.4% max.	
		Load Fluctuation	±1% max.	1% max.	
		Temperature Fluctuation	0.04%/°C max. (-20 to 50°C)	0.05%/°C max. (-10 to 50°C)	
		Ripple (including noise)	-25 to -10°C	200 mV max. (-20 to -10°C)	4% p-p max.
			-10 to 0°C	200 mV max.	1.5% p-p max.
0 to 50°C	150 mV max.		1% p-p max.		
Supplementary Functions	Overcurrent Protection	105% min. (auto reset) (*3)	105% min. (auto reset) (*3)		
	Overvoltage Protection	Voltage limitation at 115% min.	Intermittent operation, auto reset at 120% min.		
	Operation Indicator	LED (green)	LED (green)		
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute		
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)		
Operating Temperature		-20 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)		
Storage Temperature		-40 to 85°C(no freezing)	-25 to +75°C(no freezing)		
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)		
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes		
Shock Resistance		200m/s ² , 1 shock each in 6 axes	200m/s ² , 11ms, 1 shock each in 6 axes		
Structure	Dimensions (mm)	50.8H x 28W x 62D	50.8H x 34W x 65D		
	Weight (approx.)	130g	135g		
	Terminal Screw	M3	M3		
	Terminal Arrangement				

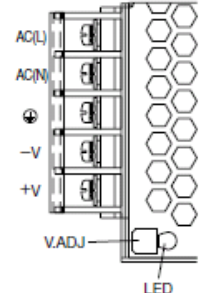
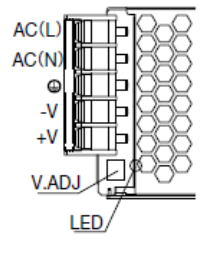
*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.

When using on DC input, connect a fuse to the input terminal for DC input protection.

*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

Comparison of specifications (PS3X-C05AFC -> PS3V-030AF05C)

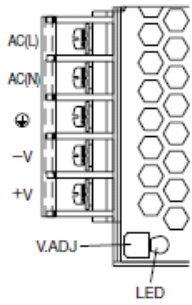
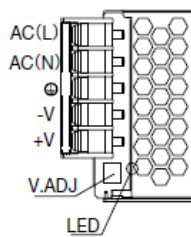
Description		PS3X-C05AFC	PS3V-030AF05C		
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 88 to 264V AC/125 to 375V DC) (*1)	100 to 240V AC (Voltage Range: 85 to 264V AC)		
	Frequency	47Hz to 63Hz	47Hz to 63Hz		
	Input Current	0.65A max.	100V: 0.66A(Typ.), 230V: 0.35A(Typ.) (at rated output)		
	Inrush Current	30A max.(at 115V AC), 50A max. (at 230V AC) (*2)	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*2)		
	Leakage Current	1.5mA max.	120V: 0.5mA max., 240V: 1mA max.		
	Efficiency (Typ.)	77% (230V AC at input/rated output)	77%/100V AC, 77%/230V AC (at rated output)		
Output	Rated Voltage/Current	5V, 5A	5V, 6A		
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)		
	Output Holding Time	10 ms typ. (100V AC), 60 ms min. (230V AC) (at rated output)	18ms typ. (100V AC), 110ms typ. (230V AC) (at rated output)		
	Start Time	1000 ms max. (230V AC input, rated output)	650 ms max. (at rated input and output)		
	Rise Time	30 ms max. (230V AC input, rated output)	200 ms max. (at rated input and output)		
	Regulation	Input Fluctuation	0.5% max.	0.4% max.	
		Load Fluctuation	±2% max.	1% max.	
		Temperature Fluctuation	0.04%/°C max.(-20 to 50°C)	0.05%/°C max.(-10 to 50°C)	
		Ripple (including noise)	-25 to -10°C	140 mV max. (-20 to -10°C)	8% p-p max.
			-10 to 0°C	140 mV max.	5% p-p max.
0 to 50°C	70 mV max.		2.5% p-p max.		
Supplementary Functions	Overcurrent Protection	105% min. (auto reset) (*3)	105% min. (auto reset) (*3)		
	Overvoltage Protection	Voltage limitation at 115% min.	Output off at 120% min., reset by turning on the input again		
	Operation Indicator	LED (green)	LED (green)		
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute		
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)		
Operating Temperature		-20 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)		
Storage Temperature		-40 to 85°C(no freezing)	-25 to 75°C(no freezing)		
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)		
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes		
Shock Resistance		200m/s ² , 11ms, 1 shock each in 6 axes	200m/s ² , 11ms, 1 shock each in 6 axes		
Structure	Dimensions (mm)	50.8H x 28.5W x 79D	68.5H x 34.5W x 95.5D		
	Weight (approx.)	180g	190g		
	Terminal Screw	M3	M3.5		
	Terminal Arrangement				

*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.
When using on DC input, connect a fuse to the input terminal for DC input protection.

*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

Comparison of specifications (PS3X-C12AFC -> PS3V-030AF12C)

Description		PS3X-C12AFC	PS3V-030AF12C		
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 88 to 264V AC/125 to 375V DC) (*1)	100 to 240V AC (Voltage Range: 85 to 264V AC)		
	Frequency	47Hz to 63Hz	47Hz to 63Hz		
	Input Current	0.65A max.	100V: 0.66A(Typ.), 230V: 0.35A(Typ.) (at rated output)		
	Inrush Current	30A max. (at 115V AC), 50A max. (at 230V AC) (*2)	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*2)		
	Leakage Current	1.5mA max.	120V: 0.5mA max., 240V: 1mA max.		
	Efficiency (Typ.)	81% (230V AC at input/rated output)	83%/100VAC, 83%/230VAC (at rated output)		
Output	Rated Voltage/Current	12V, 2.1A	12V, 2.5A		
	Adjustable Voltage Range	±10%	±10%(Adjustable by front and V.ADJ volume)		
	Output Holding Time	10ms typ. (100V AC), 60ms min. (230V AC) (at rated output)	18ms typ. (100V AC), 110ms typ. (230V AC) (at rated output)		
	Start Time	1000 ms max. (230V AC input, rated output)	650 ms max. (at rated input and output)		
	Rise Time	30 ms max. (230V AC input, rated output)	200 ms max. (at rated input and output)		
	Regulation	Input Fluctuation	0.5% max.	0.4% max.	
		Load Fluctuation	±1% max.	1% max.	
		Temperature Fluctuation	0.04%/°C max. (-20 to 50°C)	0.05%/°C max. (-10 to 50°C)	
		Ripple (including noise)	-25 to -10°C	240 mV max. (-20 to -10°C)	6% p-p max.
			-10 to 0°C	240 mV max.	2.5% p-p max.
0 to 50°C	120 mV max.		1.5% p-p max.		
Supplementary Functions	Overcurrent Protection	105% min. (auto reset) (*3)	105% min. (auto reset) (*3)		
	Overvoltage Protection	Voltage limitation at 115% min.	Output off at 120% min., reset by turning on the input again		
	Operation Indicator	LED (green)	LED (green)		
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute		
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)		
Operating Temperature		-20 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)		
Storage Temperature		-40 to 85°C(no freezing)	-25 to +75°C(no freezing)		
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)		
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes		
Shock Resistance		200m/s ² , 1 shock each in 6 axes	200m/s ² , 11ms, 1 shock each in 6 axes		
Structure	Dimensions (mm)	50.8H x 28.5W x 79D	68.5H x 34.5W x 95.5D		
	Weight (approx.)	180g	190g		
	Terminal Screw	M3	M3.5		
	Terminal Arrangement				

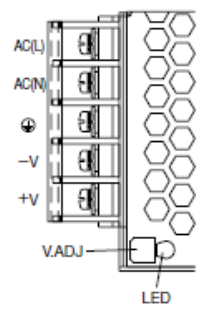
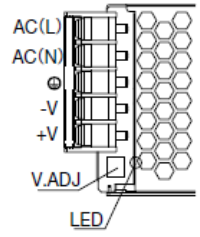
*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.

When using on DC input, connect a fuse to the input terminal for DC input protection.

*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

Comparison of specifications (PS3X-C24AFC -> PS3V-030AF24C)

Description		PS3X-C24AFC	PS3V-030AF24C		
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 88 to 264V AC/125 to 375V DC) (*1)	100 to 240V AC (Voltage Range: 85 to 264V AC)		
	Frequency	47Hz to 63Hz	47Hz to 63Hz		
	Input Current	0.65A max.	100V: 0.66A(Typ.), 230V: 0.35A(Typ.) (at rated output)		
	Inrush Current	30A max. (at 115V AC), 50A max. (at 230V AC) (*2)	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*2)		
	Leakage Current	1.5mA max.	120V: 0.5mA max., 240V: 1mA max.		
	Efficiency (Typ.)	84% (230V AC at input/rated output)	85%/100VAC, 84%/230VAC (at rated output)		
Output	Rated Voltage/Current	24V, 1.1A	24V, 1.3A		
	Adjustable Voltage Range	±10%	±10%(Adjustable by front and V.ADJ volume)		
	Output Holding Time	10ms typ. (100V AC), 60ms min. (230V AC) (at rated output)	18ms typ. (100V AC), 110ms typ. (230V AC) (at rated output)		
	Start Time	1000 ms max. (230V AC input, rated output)	650 ms max. (at rated input and output)		
	Rise Time	30 ms max. (230V AC input, rated output)	200 ms max. (at rated input and output)		
	Regulation	Input Fluctuation	0.5% max.	0.4% max.	
		Load Fluctuation	±1% max.	1% max.	
		Temperature Fluctuation	0.04%/°C max. (-20 to 50°C)	0.05%/°C max. (-10 to 50°C)	
		Ripple (including noise)	-25 to -10°C	300 mV max. (-20 to -10°C)	4% p-p max.
			-10 to 0°C	300 mV max.	1.5% p-p max.
0 to 50°C	150 mV max.		1% p-p max.		
Supplementary Functions	Overcurrent Protection	105% min. (auto reset) (*3)	105% min. (auto reset) (*3)		
	Overvoltage Protection	Voltage limitation at 115% min.	Output off at 120% min., reset by turning on the input again		
	Operation Indicator	LED (green)	LED (green)		
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute		
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)		
Operating Temperature		-20 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)		
Storage Temperature		-40 to 85°C(no freezing)	-25 to 75°C(no freezing)		
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)		
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes		
Shock Resistance		200m/s ² , 1 shock each in 6 axes	200m/s ² , 11ms, 1 shock each in 6 axes		
Structure	Dimensions (mm)	50.8H x 28.5W x 79D	68.5H x 34.5W x 95.5D		
	Weight (approx.)	180g	190g		
	Terminal Screw	M3	M3.5		
	Terminal Arrangement				

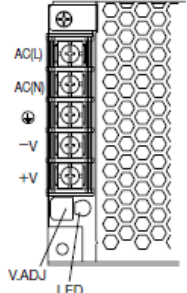
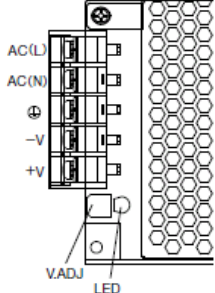
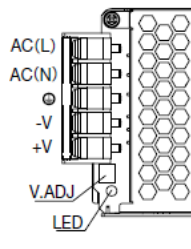
*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.

When using on DC input, connect a fuse to the input terminal for DC input protection.

*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

Comparison of specifications (PS3X-D12AF* -> PS3V-050AF12C)

Description		PS3X-D12AFG/ PS3X-D12AFC	PS3V-050AF12C		
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 88 to 264V AC/125 to 375V DC) (*1)	100 to 240V AC (Voltage Range: 85 to 264V AC)		
	Frequency	47Hz to 63Hz	47Hz to 63Hz		
	Input Current	1.3A max.	100V: 1.1A(Typ.), 230V: 0.6A(Typ.) (at rated output)		
	Inrush Current	30A max. (at 115V AC), 50A max. (at 230V AC) (*2)	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*2)		
	Leakage Current	1.5mA max.	120V: 0.5mA max., 240V: 1mA max.		
	Efficiency (Typ.)	81% (230V AC at input/rated output)	84%/100VAC, 84%/230VAC (at rated output)		
Output	Rated Voltage/Current	12V, 4.2A	12V, 4.5A		
	Adjustable Voltage Range	±10%	±10%(Adjustable by front and V.ADJ volume)		
	Output Holding Time	23ms typ. (100V AC), 60ms min. (230V AC) (at rated output)	17ms typ. (100V AC), 125ms typ. (230V AC) (at rated output)		
	Start Time	1000 ms max. (230V AC input, rated output)	650 ms max. (at rated input and output)		
	Rise Time	30 ms max. (230V AC input, rated output)	200 ms max. (at rated input and output)		
	Regulation	Input Fluctuation	0.5% max.	0.4% max.	
		Load Fluctuation	±1% max.	1% max.	
		Temperature Fluctuation	0.04%/°C max. (-10 to 45°C)	0.05%/°C max. (-10 to 50°C)	
		Ripple (including noise)	-25 to 10°C	-	6% p-p max.
			-10 to 0°C	240 mV max.	2.5% p-p max.
0 to 50°C	120 mV max. (0 to 45°C)		1.5% p-p max.		
Supplementary Functions	Overcurrent Protection	105% min. (auto reset) (*3)	105% min. (auto reset) (*3)		
	Overvoltage Protection	Intermittent operation or output off at 115% min. (*4)	Output off at 120% min., reset by turning on the input again		
	Operation Indicator	LED (green)	LED (green)		
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute		
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)		
Operating Temperature		-10 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)		
Storage Temperature		-40 to 85°C(no freezing)	-25 to 75°C(no freezing)		
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)		
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes		
Shock Resistance		200m/s ² , 1 shock each in 6 axes	200m/s ² , 11ms, 1 shock each in 6 axes		
Structure	Dimensions (mm)	82H x 35W x 99D	80H x 36W x 99D		
	Weight (approx.)	340g	230g		
	Terminal Screw	M3.5	M3.5		
	Terminal Arrangement	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>PS3X-D12AFG</p>  </div> <div style="text-align: center;"> <p>PS3X-D12AFC</p>  </div> </div>	<div style="text-align: center;">  </div>		

*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.

When using on DC input, connect a fuse to the input terminal for DC input protection.

*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

*4) For output off, one minute after the output has been turned off, turn on the AC input again.

Comparison of specifications (PS3X-D24AF* -> PS3V-050AF24C)

Description		PS3X-D24AFG/ PS3X-D24AFC	PS3V-050AF24C	
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 88 to 264V AC/125 to 375V DC) (*1)	100 to 240V AC (Voltage Range: 85 to 264V AC)	
	Frequency	47Hz to 63Hz	47Hz to 63Hz	
	Input Current	1.3A max.	100V: 1.1A(Typ.), 230V: 0.6A(Typ.) (at rated output)	
	Inrush Current	30A max. (at 115V AC), 50A max. (at 230V AC) (*2)	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*2)	
	Leakage Current	1.5mA max.	120V: 0.5mA max., 240V: 1mA max.	
	Efficiency (Typ.)	84% (230V AC at input/rated output)	87%/100VAC, 87%/230VAC (at rated output)	
Output	Rated Voltage/Current	24V, 2.2A	24V, 2.3A	
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)	
	Output Holding Time	23ms typ. (100V AC), 60ms min. (230V AC) (at rated output)	17ms typ. (100V AC), 125ms typ. (230V AC) (at rated output)	
	Start Time	1000 ms max.(230V AC input, rated output)	650 ms max. (at rated input and output)	
	Rise Time	30 ms max.(230V AC input, rated output)	200 ms max. (at rated input and output)	
	Regulation	Input Fluctuation	0.5% max.	0.4% max.
		Load Fluctuation	±1% max.	1% max.
		Temperature Fluctuation	0.04%/°C max. (-10 to 45°C)	0.05%/°C max. (-10 to 50°C)
		Ripple (including noise)	-25 to 10°C	-
	-10 to 0°C		300 mV max.	1.5% p-p max.
0 to 50°C	150 mV max. (0 to 45°C)		1% p-p max.	
Supplementary Functions	Overcurrent Protection	105% min. (auto reset) (*3)	105% min. (auto reset) (*3)	
	Overvoltage Protection	Intermittent operation or output off at 115% min. (*4)	Output off at 120% min., reset by turning on the input again	
	Operation Indicator	LED (green)	LED (green)	
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	
Operating Temperature		-10 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)	
Storage Temperature		-40 to 85°C(no freezing)	-25 to 75°C(no freezing)	
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)	
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes	
Shock Resistance		200m/s ² , 1 shock each in 6 axes	200m/s ² , 11ms, 1 shock each in 6 axes	
Structure	Dimensions (mm)	82H x 35W x 99D	80H x 36W x 99D	
	Weight (approx.)	340g	230g	
	Terminal Screw	M3.5	M3.5	
	Terminal Arrangement			

*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.

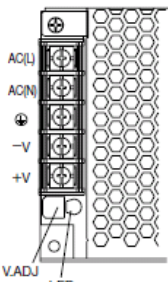
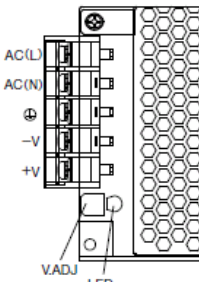
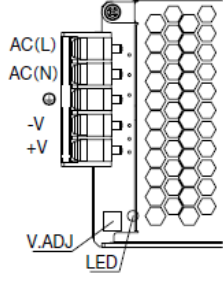
When using on DC input, connect a fuse to the input terminal for DC input protection.

*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

*4) For output off, one minute after the output has been turned off, turn on the AC input again.

Comparison of specifications (PS3X-Q24AF* -> PS3V-100AF24C)

Description		PS3X-Q24AFG/ PS3X-Q24AFC	PS3V-100AF24C		
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 88 to 264V AC/125 to 375V DC) (*1)	100 to 240V AC (Voltage Range: 85 to 264V AC)		
	Frequency	47Hz to 63Hz	47Hz to 63Hz		
	Input Current	1.8A max.	100V: 1.3A(Typ.), 230V: 0.6A(Typ.) (at rated output)		
	Inrush Current	30A max. (at 115V AC), 50A max. (at 230V AC) (*2)	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*2)		
	Leakage Current	1.5mA max.	120V: 0.5mA max., 240V: 1mA max.		
	Efficiency (Typ.)	84% (230V AC at input/rated output)	85%/100VAC, 88%/230VAC (at rated output)		
	Power Factor (Typ.)	-	0.98/100VAC, 0.9/230VAC (at rated output)		
Output	Rated Voltage/Current	24V, 3.2A	24V, 4.5A		
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)		
	Output Holding Time	14ms typ.(100V AC), 60ms min.(230V AC) (at rated output)	35ms typ.(100V AC), 35ms typ.(230V AC) (at rated output)		
	Start Time	1000 ms max. (230V AC input, rated output)	650 ms max. (at rated input and output)		
	Rise Time	30 ms max. (230V AC input, rated output)	200 ms max. (at rated input and output)		
	Regulation	Input Fluctuation	0.5% max.	0.4%max.	
		Load Fluctuation	±1% max.	1%max.	
		Temperature Fluctuation	0.04%/°C max. (-10 to 45°C)	0.05%/°C max. (-10 to 50°C)	
		Ripple (including noise)	-25 to 10°C	-	4% p-p max.
			-10 to 0°C	300 mV max.	1.5% p-p max.
0 to 50°C	150 mV max. (0 to 45°C)		1% p-p max.		
Supplementary Functions	Overcurrent Protection	105% min. (auto reset) (*3)	105% min. (auto reset) (*3)		
	Overvoltage Protection	Intermittent operation or output off at 115% min. (*4)	Output off at 120% min., reset by turning on the input again		
	Operation Indicator	LED (green)	LED (green)		
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute		
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)		
Operating Temperature		-10 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)		
Storage Temperature		-40 to 85°C(no freezing)	-25 to 75°C(no freezing)		
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)		
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes		
Shock Resistance		200m/s ² , 1 shock each in 6 axes	200m/s ² , 11ms, 1 shock each in 6 axes		
Structure	Dimensions (mm)	95H x 38W x 129D	93H x 39W x 108D		
	Weight (approx.)	500g	380g		
	Terminal Screw	M3.5	M3.5		
	Terminal Arrangement	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>PS3X-Q24AFG</p>  </div> <div style="text-align: center;"> <p>PS3X-Q24AFC</p>  </div> </div>			

*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.

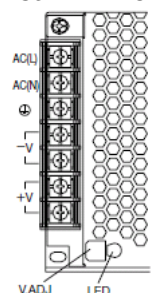
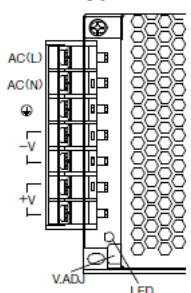
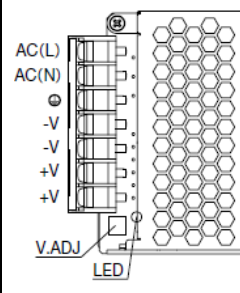
When using on DC input, connect a fuse to the input terminal for DC input protection.

*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

*4) For output off, one minute after the output has been turned off, turn on the AC input again.

Comparison of specifications (PS3X-E24AF* -> PS3V-100AF24C)

Description		PS3X-E24AFG/ PS3X-E24AFC	PS3V-100AF24C		
Input	Rated Input Voltage	100 to 240V AC (Voltage Range: 88 to 264V AC/125 to 375V DC) (*1)	100 to 240V AC (Voltage Range: AC85 to 264V)		
	Frequency	47Hz to 63Hz	47Hz to 63Hz		
	Input Current	2.5A max.	100V: 1.3A(Typ.), 230V: 0.6A(Typ.) (at rated output)		
	Inrush Current	35A max. (at 115V AC), 70A max. (at 230V AC) (*2)	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*2)		
	Leakage Current	1.5mA max.	120V: 0.5mA max., 240V: 1mA max.		
	Efficiency (Typ.)	84% (230V AC at input/rated output)	85%/100VAC, 88%/230VAC (at rated output)		
	Power Factor(Typ.)	-	0.98/100VAC, 0.95/230VAC (at rated output)		
Output	Rated Voltage/Current	24V, 4.5A	24V, 4.5A		
	Adjustable Voltage Range	±10%	±10%(Adjustable by front and V.ADJ volume)		
	Output Holding Time	17ms typ. (100V AC), 80ms min. (230V AC) (at rated output)	24ms typ. (100V AC), 24ms typ. (230V AC) (at rated output)		
	Start Time	1000 ms max. (230V AC input, rated output)	650 ms max. (at rated input and output)		
	Rise Time	30 ms max. (230V AC input, rated output)	200 ms max. (at rated input and output)		
	Regulation	Input Fluctuation	0.5% max.	0.4% max.	
		Load Fluctuation	±1% max.	1% max.	
		Temperature Fluctuation	0.04%/°C max. (-10 to 45°C)	0.05%/°C max. (-10 to 50°C)	
		Ripple (including noise)	-25 to 10°C	-	4% p-p max.
			-10 to 0°C	300 mV max.	1.5% p-p max.
	0 to 50°C	150 mV max. (0 to 45°C)	1% p-p max.		
Supplementary Functions	Overcurrent Protection	105% min. (auto reset) (*3)	105% min. (auto reset) (*3)		
	Overvoltage Protection	Intermittent operation or output off at 115% min. (*4)	Output off at 120% min., reset by turning on the input again		
	Operation Indicator	LED (green)	LED (green)		
Dielectric Strength		Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute		
Insulation Resistance		100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)		
Operating Temperature		-10 to 70°C(no freezing, see output derating)	-25 to 70°C(no freezing, see output derating)		
Storage Temperature		-40 to 85°C(no freezing)	-25 to 75°C(no freezing)		
Operating Humidity		20 to 85%RH (no condensation)	20 to 90%RH (no condensation)		
Vibration Resistance		10 to 55 Hz, 2G constant, 2 hours each in 3 axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes		
Shock Resistance		200m/s ² , 1 shock each in 6 axes	200m/s ² , 11ms, 1 shock each in 6 axes		
Structure	Dimensions (mm)	95H x 38W x 159D	93H x 39W x 108D		
	Weight (approx.)	540g	380g		
	Terminal Screw	M3.5	M3.5		
	Terminal Arrangement	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>PS3X-E24AFG</p>  </div> <div style="text-align: center;"> <p>PS3X-E24AFC</p>  </div> </div>	<div style="text-align: center;">  </div>		

*1) DC input voltage is not subjected to safety standards. The input voltage range approved by safety standards is 100 to 240V AC.

When using on DC input, connect a fuse to the input terminal for DC input protection.

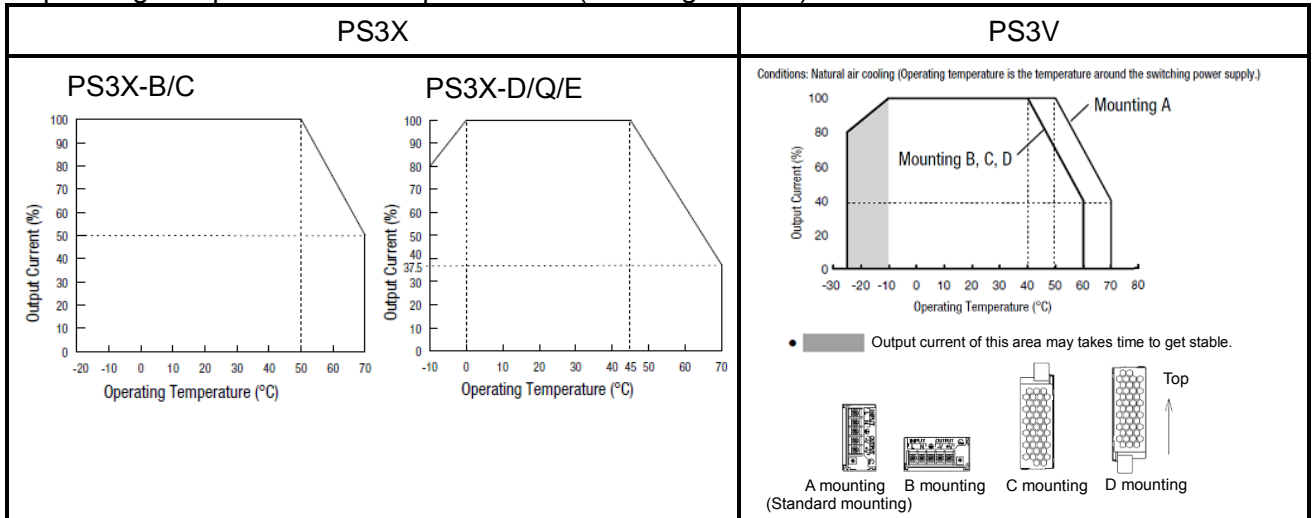
*2) Ta = 25°C, cold start.

*3) Overload for 30 seconds or longer may damage the internal elements.

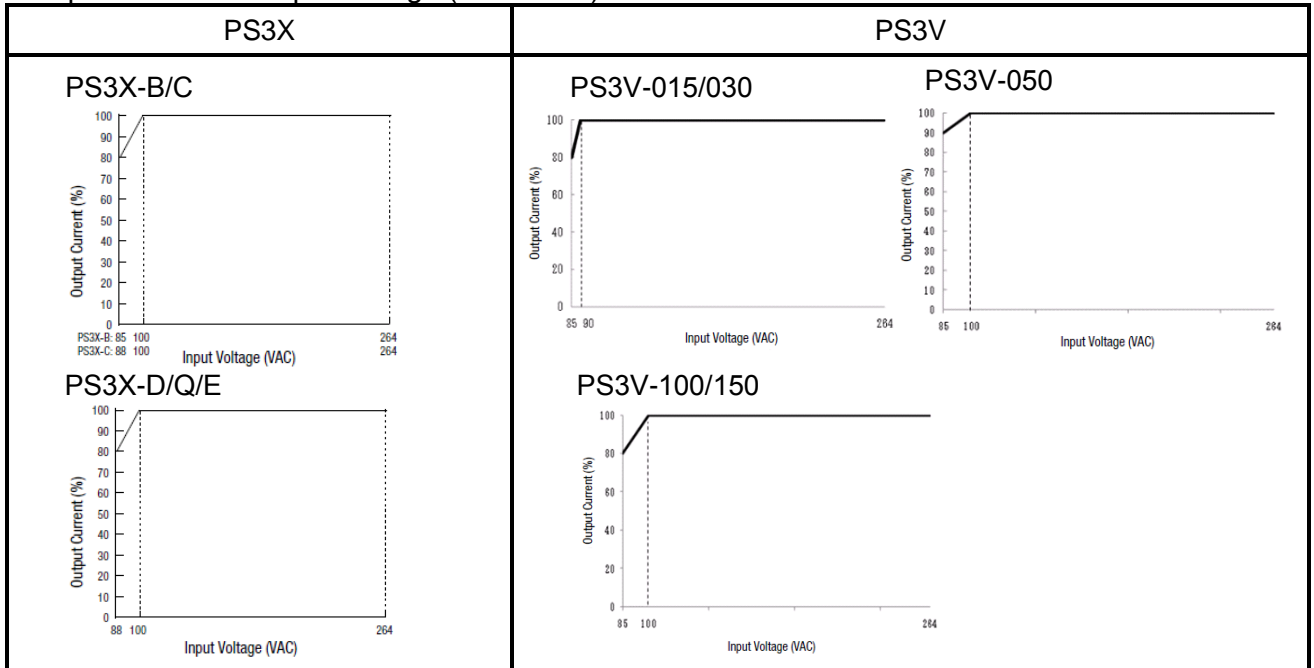
*4) For output off, one minute after the output has been turned off, turn on the AC input again.

Derating curves, overcurrent protection characteristics

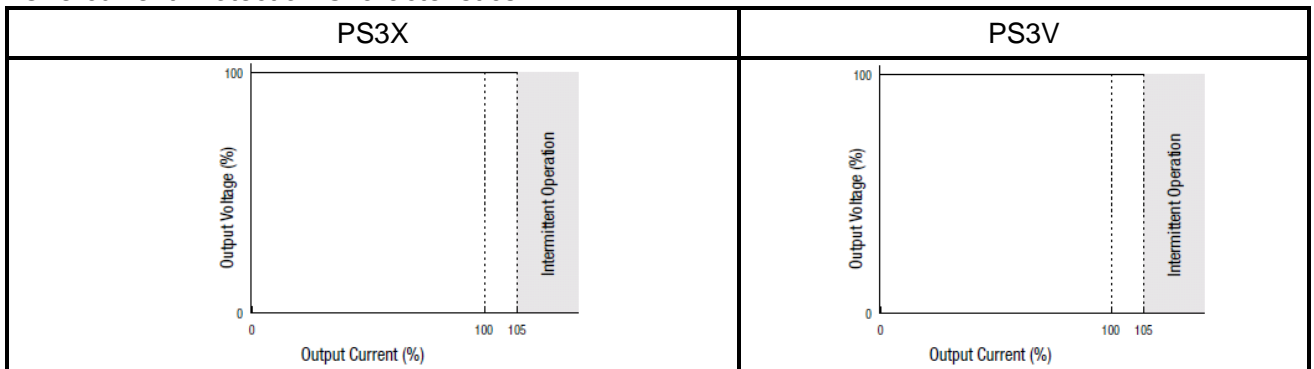
Operating Temperature vs. Output Current (Derating Curves)



Output Current vs. Input Voltage (TA = 25°C)

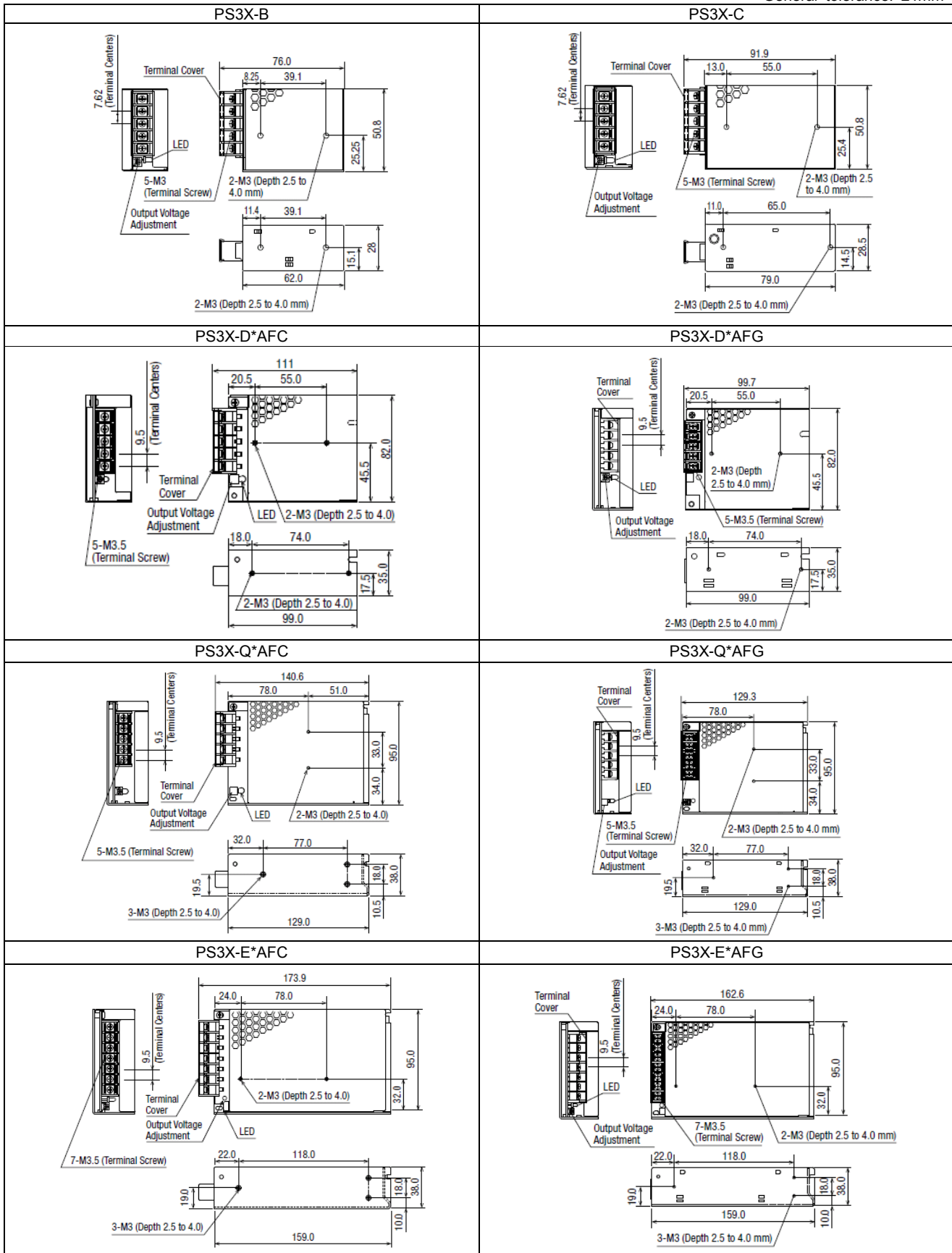


Overcurrent Protection Characteristics



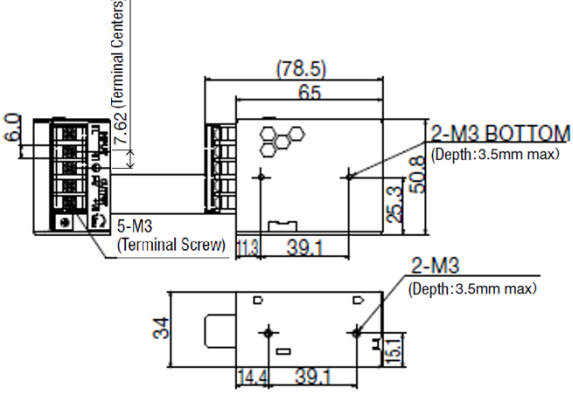
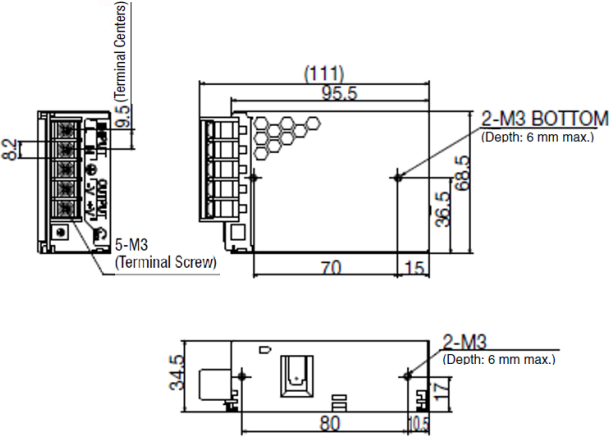
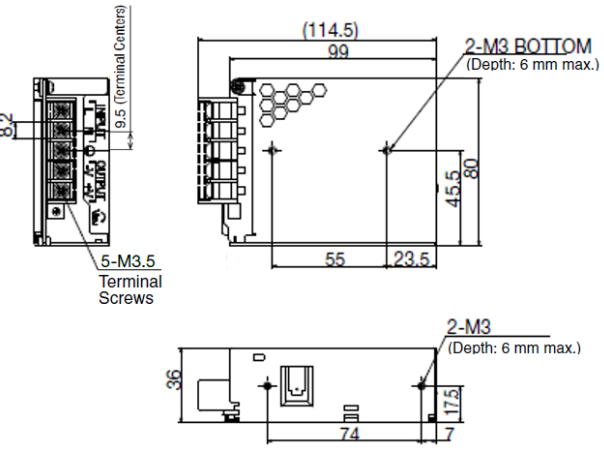
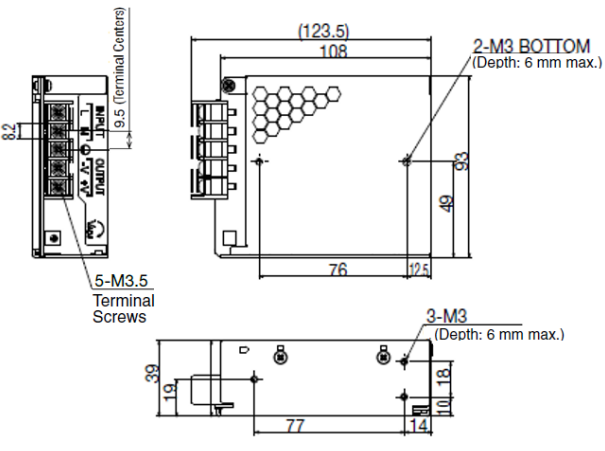
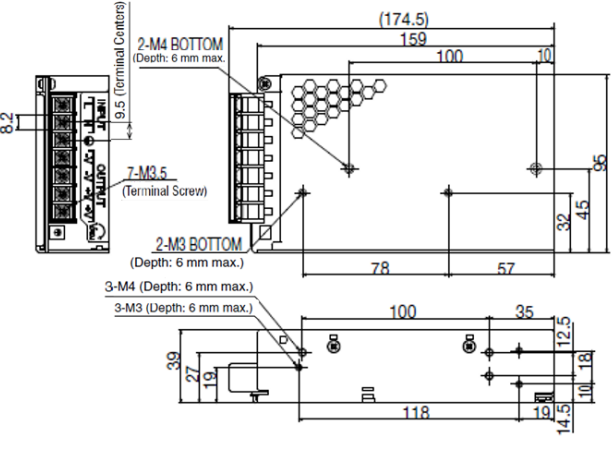
PS3X Dimensions

General tolerance: $\pm 1\text{mm}$



PS3V Dimensions

General tolerance: $\pm 1\text{mm}$

PS3V-015AF*C	PS3V-030AF*C
	
PS3V-050AF*C	PS3V-100AF*C
	
PS3V-150AF*C	
	

All dimensions in mm.



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