

May 2021

#### Product discontinuation: PS3N series switching power supplies

IDEC would like to inform you that we will discontinue our PS3N series switching power supplies.



#### **1. Products to be discontinued**

We will discontinue all PS3N series switching power supplies. Please see page 2 for list of part numbers.

L-shaped mounting bracket	Frame cover		Mounting plate	L-shaped mounting bracket 2
PS9Z-3N2A	PS9Z-3N9AN	ſ	PS9Z-3N1A	PS9Z-3N3B
PS9Z-3N2B	PS9Z-3N9BN	ſ	PS9Z-3N1B	PS9Z-3N3C
PS9Z-3N2C	PS9Z-3N9CN	ſ	PS9Z-3N1C	PS9Z-3N3D
PS9Z-3N2D	PS9Z-3N9DN		PS9Z-3N1D	PS9Z-3N3F
PS9Z-3N2E	PS9Z-3N9EN	ſ	PS9Z-3N1E	
PS9Z-3N2F	PS9Z-3N9FN	ſ	PS9Z-3N1F	

The following accessories will be also discontinued.

Note: Special products are also included.

#### 2. Recommended replacements

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

- a) PS3V series will not have connector type or open frame type.
- b) Please refer to the replacement list from p.2 to p.6.
- c) Regarding the specification differences, please refer to the replacement manual "From PS3N series switching power supplies to PS3V series switching power supplies (20-SMBE104)"

#### 3. Schedule (TBD)

Discontinued date: Immediately while supplies last.

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

Products to be discontinued: PS3N		Recommended replacements: PS3V				
Part number	Shape	I/O Terminal	Part number	Shape	I/O Terminal	
PS3N-C12A1N	Open frame	Terminal block	PS3V-030AF12C	With cover	Terminal block	
PS3N-C12A1CN	With cover	Terminal block	F33V-030AF12C	with cover	Terminal block	
PS3N-C12A1AN	Open frame	Connector	Disease use terminal black trine			
PS3N-C12A1DN	With cover	Connector	Please use terminal block type			
PS3N-C24A1N	Open frame	Terminal block		With cover	Terminal block	
PS3N-C24A1CN	With cover	Terminal block	PS3V-030AF24C	with cover	Terminal Diock	
PS3N-C24A1AN	Open frame	Connector	Please use terminal block type			
PS3N-C24A1DN	With cover	Connector				

Note: Special products are also included.



#### Replacement list: PS3N series to PS3V series

Products to be discontinued: PS3N		Recommended replacements: PS3V				
Part number	Shape	I/O Terminal	Part number Shape I/O Terr			
PS3N-A05A1N	Open frame	Terminal block		Mith cover	- · · · ·	
PS3N-A05A1CN	With cover	Terminal block	PS3V-015AF05C	With cover	Terminal block	
PS3N-A05A1AN	Open frame	Connector	Diagon una tormina	hladk type		
PS3N-A05A1DN	With cover	Connector	Please use termina	п ыоск туре		
PS3N-A05A2N	Open frame	Terminal block	PS3V-015AF05C	With cover	Terminal block	
PS3N-A05A2CN	With cover	Terminal block	F33V-013AF03C	With Cover	Terminal block	
PS3N-A05A2AN	Open frame	Connector	Please use termina	l block type		
PS3N-A05A2DN	With cover	Connector		li block type		
PS3N-A12A1N	Open frame	Terminal block	PS3V-015AF12C	With cover	Terminal block	
PS3N-A12A1CN	With cover	Terminal block	P33V-015AF12C	with cover	Terminal block	
PS3N-A12A1AN	Open frame	Connector	Places use termine	hlack type		
PS3N-A12A1DN	With cover	Connector	Please use termina	п рюск туре		
PS3N-A12A2N	Open frame	Terminal block	PS3V-015AF12C	With cover		
PS3N-A12A2CN	With cover	Terminal block	P33V-015AF12C	Terminal block		
PS3N-A12A2AN	Open frame	Connector	Please use terminal block type			
PS3N-A12A2DN	With cover	Connector	Please use termina	п ыоск туре		
PS3N-A24A1N	Open frame	Terminal block	PS3V-015AF24C	Mith cover	Terminal block	
PS3N-A24A1CN	With cover	Terminal block	P53V-015AF24C	With cover	Terminal block	
PS3N-A24A1AN	Open frame	Connector	Diagon una termina	hladk type		
PS3N-A24A1DN	With cover	Connector	Please use termina	п рюск туре		
PS3N-A24A2N	Open frame	Terminal block	PS3V-015AF24C	With cover	Terminal block	
PS3N-A24A2CN	With cover	Terminal block	F33V-013AF24C	With Cover	Terminal block	
PS3N-A24A2AN	Open frame	Connector	Please use termina	l block type		
PS3N-A24A2DN	With cover	Connector		li block type		
PS3N-B05A1N	Open frame	Terminal block	PS3V-015AF05C	Mith cover	Terminal block	
PS3N-B05A1CN	With cover	Terminal block	P33V-015AF05C	With cover	Terminal block	
PS3N-B05A1AN	Open frame	Connector	Plazea usa tarmina	l block type		
PS3N-B05A1DN	With cover	Connector	Please use termina	п ыоск туре		
PS3N-B05A2N	Open frame	Terminal block		With covor	Terminal block	
PS3N-B05A2CN	With cover	Terminal block	PS3V-015AF05C With cover Terminal			
PS3N-B05A2AN	Open frame	Connector	Plazea usa tarmina	hlock type		
PS3N-B05A2DN	With cover	Connector	Please use terminal block type			



Products to be discontinued: PS3N		Recommended replacements: PS3V			
Part number	Shape	I/O Terminal	Part number	Shape	I/O Terminal
PS3N-B12A1N	Open frame	Terminal block	PS3V-015AF12C	With cover	Tamainal blaats
PS3N-B12A1CN	With cover	Terminal block	F33V-013AF12C	Terminal block	
PS3N-B12A1AN	Open frame	Connector	Please use termina	l block type	
PS3N-B12A1DN	With cover	Connector	Flease use termina	п рюск туре	
PS3N-B12A2N	Open frame	Terminal block	PS3V-015AF12C	With cover	Terminal block
PS3N-B12A2CN	With cover	Terminal block	P33V-015AF12C		Terminal DIOCK
PS3N-B12A2AN	Open frame	Connector	Please use termina	l block type	
PS3N-B12A2DN	With cover	Connector	Please use termina	п рюск туре	
PS3N-B24A1N	Open frame	Terminal block		Mith cover	Terminal block
PS3N-B24A1CN	With cover	Terminal block	PS3V-015AF24C	With cover	Terminal block
PS3N-B24A1AN	Open frame	Connector	Please use terminal block type		
PS3N-B24A1DN	With cover	Connector			
PS3N-B24A2N	Open frame	Terminal block	PS3V-015AF24C	Terminal block	
PS3N-B24A2CN	With cover	Terminal block	F33V-015AF24C	With cover	
PS3N-B24A2AN	Open frame	Connector	Please use termina	l block type	
PS3N-B24A2DN	With cover	Connector	Please use termina	п рюск туре	
PS3N-C05A1N	Open frame	Terminal block	PS3V-030AF05C	With cover	Terminal block
PS3N-C05A1CN	With cover	Terminal block	P33V-030AF03C	with cover	Terminal block
PS3N-C05A1AN	Open frame	Connector	Please use termina	l block type	
PS3N-C05A1DN	With cover	Connector	Flease use termina	п рюск туре	
PS3N-C05A2N	Open frame	Terminal block	PS3V-030AF05C	With cover	Terminal block
PS3N-C05A2CN	With cover	Terminal block	P33V-030AF03C		Terminal block
PS3N-C05A2AN	Open frame	Connector	Please use termina	l block type	
PS3N-C05A2DN	With cover	Connector		п рюск туре	
PS3N-C12A2N	Open frame	Terminal block		With cover	Terminel block
PS3N-C12A2CN	With cover	Terminal block	PS3V-030AF12C With cover Terminal		
PS3N-C12A2AN	Open frame	Connector	Please use terminal block type		
PS3N-C12A2DN	With cover	Connector			



Products to be discontinued: PS3N		Recommended replacements: PS3V					
Part number	Shape	I/O Terminal	Part number	Shape	I/O Terminal		
PS3N-C24A2N	Open frame	Terminal block		With covor	Terreire et ble etc		
PS3N-C24A2CN	With cover	Terminal block	PS3V-030AF24C With cover Terminal				
PS3N-C24A2AN	Open frame	Connector	Please use terminal block type				
PS3N-C24A2DN	With cover	Connector	Flease use termina	ii biock type			
PS3N-D05A1N	Open frame	Terminal block					
PS3N-D05A1CN	With cover	Terminal block					
PS3N-D05A1AN	Open frame	Connector	No recommended r	anlacamente			
PS3N-D05A1DN	With cover	Connector	No recommended replacements (PS3V series does not have products that output capacity is 50W and output voltage is 5				
PS3N-D05A2N	Open frame	Terminal block					
PS3N-D05A2CN	With cover	Terminal block					
PS3N-D05A2AN	Open frame	Connector					
PS3N-D05A2DN	With cover	Connector					
PS3N-D12A1N	Open frame	Terminal block					
PS3N-D12A1CN	With cover	Terminal block	PS3V-050AF12C	With cover	Terminal block		
PS3N-D12A1AN	Open frame	Connector	Please use termina	l block type			
PS3N-D12A1DN	With cover	Connector	Flease use termina	ii biock type			
PS3N-D12A2N	Open frame	Terminal block	PS3V-050AF12C	With cover	Terminal block		
PS3N-D12A2CN	With cover	Terminal block	F33V-030AF12C	With Cover	Terminal block		
PS3N-D12A2AN	Open frame	Connector	Please use termina	l block type			
PS3N-D12A2DN	With cover	Connector	Flease use termina	ii biock type			
PS3N-D24A1N	Open frame	Terminal block	PS3V-050AF24C	With cover	Terminal block		
PS3N-D24A1CN	With cover	Terminal block	F33V-050AF24C	With cover	Terminal block		
PS3N-D24A1AN	Open frame	Connector	Diagon una tormina	l block type			
PS3N-D24A1DN	With cover	Connector	Please use termina	п рюск туре			
PS3N-D24A2N	Open frame	Terminal block	PS3V-050AF24C	With cover	Terminal block		
PS3N-D24A2CN	With cover	Terminal block	F 33V-030AF24C	With cover			
PS3N-D24A2AN	Open frame	Connector					
PS3N-D24A2DN	With cover	Connector	Please use terminal block type				



Products to be discontinued: PS3N		Recommended replacements: PS3V						
Part number	Shape	I/O Terminal	Part number	Shape	I/O Terminal			
PS3N-E05A1N	Open frame	Terminal block						
PS3N-E05A1CN	With cover	Terminal block						
PS3N-E05A1AN	Open frame	Connector						
PS3N-E05A1DN	With cover	Connector						
PS3N-E05A2N	Open frame	Terminal block						
PS3N-E05A2CN	With cover	Terminal block						
PS3N-E05A2AN	Open frame	Connector	No recommended r	anlacamente				
PS3N-E05A2DN	With cover	Connector	No recommended replacements (PS3V series does not have products that the					
PS3N-E12A1N	Open frame	Terminal block	output capacity is 100W and output voltage is					
PS3N-E12A1CN	With cover	Terminal block	or 12V)					
PS3N-E12A1AN	Open frame	Connector						
PS3N-E12A1DN	With cover	Connector						
PS3N-E12A2N	Open frame	Terminal block						
PS3N-E12A2CN	With cover	Terminal block						
PS3N-E12A2AN	Open frame	Connector						
PS3N-E12A2DN	With cover	Connector						
PS3N-E24A1N	Open frame	Terminal block						
PS3N-E24A1CN	With cover	Terminal block	PS3V-100AF24C	With cover	Terminal block			
PS3N-E24A1AN	Open frame	Connector	Diagon una termina	l block type				
PS3N-E24A1DN	With cover	Connector	Please use termina	п бюск туре				
PS3N-E24A2N	Open frame	Terminal block	PS3V-100AF24C	With cover	Terminal block			
PS3N-E24A2CN	With cover	Terminal block	P53V-100AF24C	with cover	Terminal Diock			
PS3N-E24A2AN	Open frame	Connector	Plaasa usa tarmina	l block type				
PS3N-E24A2DN	With cover	Connector	Please use termina	п ыоск туре				
PS3N-F12A1N	Open frame	Terminal block						
PS3N-F12A1CN	With cover	Terminal block						
PS3N-F12A1AN	Open frame	Connector	No recommended r	onlacomonto				
PS3N-F12A1DN	With cover	Connector	No recommended r (PS3V series does		ucts that the			
PS3N-F12A2N	Open frame	Terminal block	output capacity is 1					
PS3N-F12A2CN	With cover	Terminal block	12V)					
PS3N-F12A2AN	Open frame	Connector						
PS3N-F12A2DN	With cover	Connector						



Products to be discontinued: PS3N		Recommended replacements: PS3V			
Part number	Shape	I/O Terminal	Part number	Shape	I/O Terminal
PS3N-F24A1N	Open frame	Terminal block	PS3V-150AF24C	With cover	Terminal block
PS3N-F24A1CN	With cover	Terminal block	PS3V-150AF24C	with cover	
PS3N-F24A1AN	Open frame	Connector	Please use terminal block type		
PS3N-F24A1DN	With cover	Connector	Please use termina	п рюск туре	
PS3N-F24A2N	Open frame	Terminal block		With cover	Terminal block
PS3N-F24A2CN	With cover	Terminal block	PS3V-150AF24C		
PS3N-F24A2AN	Open frame	Connector	Please use terminal block type		
PS3N-F24A2DN	With cover	Connector			



From PS3N series switching power supplies to PS3V series switching power supplies

## **Replacement Manual**

Issue No. 20-SMBE104\_4







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#### About this document

This document is a manual for replacing PS3N series switching power supplies with the PS3V series switching power supplies.

#### Replacement with PS3V series

- Dimensions are different between PS3N series and PS3V series. Refer to [Dimensions from page 22 to 23].
- The size and terminal arrangement of the I/O terminals are different between PS3N series and PS3V series. Refer to [Comparison of specifications from page 8 to 20].
- Overcurrent protection characteristics and derating characteristics are different between PS3N series and PS3V series. Refer to [Derating curves, overcurrent protection characteristics in page 21].
- PS3V series cannot be used on DC input.

# Replacement list (PS3N series -> PS3Vseries) (1)

PS3N			PS3V		
Part number	Shape	I/O Terminal	Part number	Shape	I/O Terminal
PS3N-A05A1N	Open frame	Terminal block			Tamainal black
PS3N-A05A1CN	With cover	Terminal block	PS3V-015AF05C	With cover	Terminal block
PS3N-A05A1AN	Open frame	Connector			
PS3N-A05A1DN	With cover	Connector	Please use termina	і біоск туре	
PS3N-A05A2N	Open frame	Terminal block		Mith any ar	Terminal block
PS3N-A05A2CN	With cover	Terminal block	PS3V-015AF05C	With cover	Terminal block
PS3N-A05A2AN	Open frame	Connector			
PS3N-A05A2DN	With cover	Connector	Please use termina	і біоск туре	
PS3N-A12A1N	Open frame	Terminal block			Tamain al bla als
PS3N-A12A1CN	With cover	Terminal block	PS3V-015AF12C	With cover	Terminal block
PS3N-A12A1AN	Open frame	Connector			
PS3N-A12A1DN	With cover	Connector	Please use termina	і біоск туре	
PS3N-A12A2N	Open frame	Terminal block			<b>-</b>
PS3N-A12A2CN	With cover	Terminal block	PS3V-015AF12C	With cover	Terminal block
PS3N-A12A2AN	Open frame	Connector			•
PS3N-A12A2DN	With cover	Connector	Please use termina	і біоск туре	
PS3N-A24A1N	Open frame	Terminal block			Tamain at bla at
PS3N-A24A1CN	With cover	Terminal block	PS3V-015AF24C	With cover	Terminal block
PS3N-A24A1AN	Open frame	Connector	Dia ana si sa tamaina		
PS3N-A24A1DN	With cover	Connector	Please use termina	і біоск туре	
PS3N-A24A2N	Open frame	Terminal block			Tamain al bla als
PS3N-A24A2CN	With cover	Terminal block	PS3V-015AF24C	With cover	Terminal block
PS3N-A24A2AN	Open frame	Connector			
PS3N-A24A2DN	With cover	Connector	Please use termina	і біоск туре	
PS3N-B05A1N	Open frame	Terminal block			Terminal block
PS3N-B05A1CN	With cover	Terminal block	PS3V-015AF05C	With cover	Terminal block
PS3N-B05A1AN	Open frame	Connector		I blo als tura a	
PS3N-B05A1DN	With cover	Connector	Please use termina	і біоск туре	
PS3N-B05A2N	Open frame	Terminal block			Terrecipel block
PS3N-B05A2CN	With cover	Terminal block	PS3V-015AF05C	With cover	Terminal block
PS3N-B05A2AN	Open frame	Connector	Diagon una tarreira		
PS3N-B05A2DN	With cover	Connector	Please use terminal block type		
PS3N-B12A1N	Open frame	Terminal block			Tauration
PS3N-B12A1CN	With cover	Terminal block	PS3V-015AF12C	With cover	Terminal block

## Replacement list (PS3N series -> PS3Vseries) (2)

Products to be discontinued: PS3N		Recommended replacements: PS3V				
Part number	Shape	I/O Terminal	Part number Shape I/O Termir			
PS3N-B12A1AN	Open frame	Connector				
PS3N-B12A1DN	With cover	Connector	Please use terminal block type			
PS3N-B12A2N	Open frame	Terminal block		Terreinel bleek		
PS3N-B12A2CN	With cover	Terminal block	PS3V-015AF12C	With cover	Terminal block	
PS3N-B12A2AN	Open frame	Connector	Diagon una tormina	l block type		
PS3N-B12A2DN	With cover	Connector	Please use termina	п бюск туре		
PS3N-B24A1N	Open frame	Terminal block				
PS3N-B24A1CN	With cover	Terminal block	PS3V-015AF24C	With cover	Terminal block	
PS3N-B24A1AN	Open frame	Connector	Diagon una termina	l block turno		
PS3N-B24A1DN	With cover	Connector	Please use termina	п бюск туре		
PS3N-B24A2N	Open frame	Terminal block	PS3V-015AF24C	Mith cover	Terminal block	
PS3N-B24A2CN	With cover	Terminal block	P53V-015AF24C	With cover	Terminal block	
PS3N-B24A2AN	Open frame	Connector				
PS3N-B24A2DN	With cover	Connector	Please use terminal block type			
PS3N-C05A1N	Open frame	Terminal block			Tamasia al la la alc	
PS3N-C05A1CN	With cover	Terminal block	PS3V-030AF05C	With cover	Terminal block	
PS3N-C05A1AN	Open frame	Connector				
PS3N-C05A1DN	With cover	Connector	Please use termina	и вюск туре		
PS3N-C05A2N	Open frame	Terminal block	PS3V-030AF05C	Mith cover	Terminal block	
PS3N-C05A2CN	With cover	Terminal block	P33V-030AF05C	With cover	Terminal block	
PS3N-C05A2AN	Open frame	Connector	Please use termina	l block type		
PS3N-C05A2DN	With cover	Connector	Please use termina	п бюск туре		
PS3N-C12A1N	Open frame	Terminal block		Mith cover	Terminal block	
PS3N-C12A1CN	With cover	Terminal block	PS3V-030AF12C	With cover	Terminal block	
PS3N-C12A1AN	Open frame	Connector	Diogoo uso termina	l block type		
PS3N-C12A1DN	With cover	Connector	Please use termina	п бюск туре		
PS3N-C12A2N	Open frame	Terminal block	PS3V-030AF12C	With cover	Terminal block	
PS3N-C12A2CN	With cover	Terminal block	P33V-030AF12C		Terminal block	
PS3N-C12A2AN	Open frame	Connector	Diogoo uso termina	l block type		
PS3N-C12A2DN	With cover	Connector	Please use termina			
PS3N-C24A1N	Open frame	Terminal block		Mith cover	Torminal block	
PS3N-C24A1CN	With cover	Terminal block	PS3V-030AF24C With cover Terminal I			
PS3N-C24A1AN	Open frame	Connector	Diagon una tamai a	l block to us a		
PS3N-C24A1DN	With cover	Connector	Please use terminal block type			

## Replacement list (PS3N series -> PS3Vseries) (3)

Products to be discontinued: PS3N		Recommended replacements: PS3V					
Part number	Shape	I/O Terminal	Part number Shape I/O Termina				
PS3N-C24A2N	Open frame	Terminal block		Tamainal black			
PS3N-C24A2CN	With cover	Terminal block	PS3V-030AF24C	With cover	Terminal block		
PS3N-C24A2AN	Open frame	Connector					
PS3N-C24A2DN	With cover	Connector	Please use terminal block type				
PS3N-D05A1N	Open frame	Terminal block					
PS3N-D05A1CN	With cover	Terminal block					
PS3N-D05A1AN	Open frame	Connector	No recommended r	replacements			
PS3N-D05A1DN	With cover	Connector	(PS3V series doe	s not have p	roducts that the		
PS3N-D05A2N	Open frame	Terminal block	output capacity is 5	0W and outpu	t voltage is 5V)		
PS3N-D05A2CN	With cover	Terminal block					
PS3N-D05A2AN	Open frame	Connector					
PS3N-D05A2DN	With cover	Connector	1				
PS3N-D12A1N	Open frame	Terminal block		Terreire et ble etc			
PS3N-D12A1CN	With cover	Terminal block	PS3V-050AF12C	With cover	Terminal block		
PS3N-D12A1AN	Open frame	Connector	Diagon una tormina	l block type			
PS3N-D12A1DN	With cover	Connector	Please use termina	п бюск туре			
PS3N-D12A2N	Open frame	Terminal block	PS3V-050AF12C	With cover	Terminal block		
PS3N-D12A2CN	With cover	Terminal block	P33V-050AF12C	with cover	Terminal Diock		
PS3N-D12A2AN	Open frame	Connector	Please use termina	l block type			
PS3N-D12A2DN	With cover	Connector	Flease use termina	п ыоск туре			
PS3N-D24A1N	Open frame	Terminal block	PS3V-050AF24C	With cover	Terminal block		
PS3N-D24A1CN	With cover	Terminal block	P33V-050AF24C	with cover	Terminal Diock		
PS3N-D24A1AN	Open frame	Connector	Diagon una termina	l block type			
PS3N-D24A1DN	With cover	Connector	Please use termina	п ыоск туре			
PS3N-D24A2N	Open frame	Terminal block	PS3V-050AF24C	With cover	Terminal block		
PS3N-D24A2CN	With cover	Terminal block	F33V-050AF24C		Terminal Diock		
PS3N-D24A2AN	Open frame	Connector	Please use termina	l block type			
PS3N-D24A2DN	With cover	Connector	Flease use termina	п ыоск туре			
PS3N-E05A1N	Open frame	Terminal block					
PS3N-E05A1CN	With cover	Terminal block	No rocommondo d	anlagamente			
PS3N-E05A1AN	Open frame	Connector	No recommended r	•	roducts that the		
PS3N-E05A1DN	With cover	Connector	(PS3V series doe output capacity is 1	-			
PS3N-E05A2N	Open frame	Terminal block		oovv and oulp	ui vuilaye is 5v)		
PS3N-E05A2CN	With cover	Terminal block					

## Replacement list (PS3N series -> PS3Vseries) (4)

Products to be discontinued: PS3N		Recommended replacements: PS3V					
Part number	Shape	I/O Terminal	Part number Shape I/O Termina				
PS3N-E05A2AN	Open frame	Connector					
PS3N-E05A2DN	With cover	Connector					
PS3N-E12A1N	Open frame	Terminal block					
PS3N-E12A1CN	With cover	Terminal block	No recommended i	replacements			
PS3N-E12A1AN	Open frame	Connector	(PS3V series does	not have produ	ucts that the		
PS3N-E12A1DN	With cover	Connector	output capacity is 1	00W and outp	ut voltage is 5V		
PS3N-E12A2N	Open frame	Terminal block	or 12V)				
PS3N-E12A2CN	With cover	Terminal block					
PS3N-E12A2AN	Open frame	Connector					
PS3N-E12A2DN	With cover	Connector					
PS3N-E24A1N	Open frame	Terminal block	PS3V-100AF24C	Mith only or	Terminal block		
PS3N-E24A1CN	With cover	Terminal block	P53V-100AF24C	With cover	Terminal block		
PS3N-E24A1AN	Open frame	Connector					
PS3N-E24A1DN	With cover	Connector	Please use terminal block type				
PS3N-E24A2N	Open frame	Terminal block		Mith cover	Terminal block		
PS3N-E24A2CN	With cover	Terminal block	PS3V-100AF24C With cover Terminal				
PS3N-E24A2AN	Open frame	Connector	Diagona una tormina	l block type			
PS3N-E24A2DN	With cover	Connector	Please use termina	п ыоск туре			
PS3N-F12A1N	Open frame	Terminal block					
PS3N-F12A1CN	With cover	Terminal block					
PS3N-F12A1AN	Open frame	Connector					
PS3N-F12A1DN	With cover	Connector	No recommended I		raduate that the		
PS3N-F12A2N	Open frame	Terminal block	(PS3V series doe	-			
PS3N-F12A2CN	With cover	Terminal block	output capacity is 1				
PS3N-F12A2AN	Open frame	Connector					
PS3N-F12A2DN	With cover	Connector					
PS3N-F24A1N	Open frame	Terminal block	D00)/ 45045040		Tamainad blash		
PS3N-F24A1CN	With cover	Terminal block	PS3V-150AF24C	With cover	Terminal block		
PS3N-F24A1AN	Open frame	Connector					
PS3N-F24A1DN	With cover	Connector	Please use terminal block type				
PS3N-F24A2N	Open frame	Terminal block			Torminal black		
PS3N-F24A2CN	With cover	Terminal block	PS3V-150AF24C With cover Terminal bloc				
PS3N-F24A2AN	Open frame	Connector			•		
PS3N-F24A2DN	With cover	Connector	Please use terminal block type				

## Comparison of specifications (PS3N-A05A\*\*N -> PS3V-015AF05C)

		1	11
	Description	PS3N-A05A**N	PS3V-015AF05C
	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	AC100 to 240V (Voltage Range: AC85 to 264V)
rt	Frequency	47Hz to 63Hz	47Hz to 63Hz
Input	Input Current	100V: 0.27A (Typ.), 200V: 0.15A (Typ.)	100V: 0.32A (Typ.), 230V: 0.2A (Typ.)
	(at rated output)		
	Inrush Current	100V: 30A max., 200V: 60A max.	40A Typ. (at 100V AC), 60A Typ. (at 230V AC) (*1)
	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max. 77% 100VAC, 76% 230VAC (at rated output)
	Efficiency (Typ.)	71%	
	Rated Voltage/Current	5V, 2A	5V, 3A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	15ms Typ. (100V AC), 120ms Typ. (230V AC) (at rated output)
t	Start Time	200ms max. (at rated input and output)	650ms max. (at rated input and output)
Output	Rise Time	100ms max. (at rated input and output)	300ms max. (at rated input and output)
Ō	Input Fluctuation	20 mV max.	0.4% max.
	Load Fluctuation	40 mV max.	1% max.
	Fluctuation	60 mV max. (-10 to 50°C)	0.05%/°C max. (-10 to 50°C)
	Ripple -25 to 10°C	-	8% p-p max.
	(including -10 to 0°C noise) 0 to 50°C	160 mV max.	5% p-p max. 2.5% p-p max.
~	,	100 mV max.	
entary	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Supplementary Functions	Overvoltage Protection	120% min. (*3)	Intermittent operation, auto reset at 120% min.
Idn S	Operation Indicator	LED (green)	LED (green)
		Between input and output terminals:	Between input and output terminals:
		2000V AC, 1 minute	3000V AC, 1 minute
Diel	ectric Strength	Between input and ground terminals: 2000V AC, 1 minute	Between input and ground terminals: 2000V AC, 1 minute
		Between output and ground terminals:	Between output and ground terminals:
		500V AC, 1 minute	500V AC, 1 minute
Insu	lation 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)
Ope	rating Temperature	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
	rating Humidity	20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
Vibr	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Sho	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	70H x 27W x 68D (with cover: 70H x 32W x 68D)	50.8H x 34W x 65D (with cover)
[	Weight (approx.)	110g	135g
	Terminal Screw	M3.5	M3
Structure	Terminal Arrangement	V.ADJ	AC(L) AC(N)
*1\7	$F_{0} = 2F^{\circ}C$ and start	l	

## Comparison of specifications (PS3N-A12A\*\*N -> PS3V-015AF12C)

	Description	PS3N-A12A**N	PS3V-015AF12C
nput	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
	Frequency	47Hz to 63Hz	47Hz to 63Hz
lnp	Input Current (at rated output)	100V: 0.27A (Typ.), 200V: 0.15A (Typ.)	100V: 0.32A (Typ.), 230V: 0.2A (Typ.)
	Inrush Current	100V: 30A max., 200V: 60A max.	40A Typ. (at 100V AC), 60A Typ. (at 230V AC) (*1)
	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max.
	Efficiency (Typ.)	76%	82%/100VAC,81%/230VAC (at rated output)
	Rated Voltage/Current	12V, 0.9A	12V, 1.3A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	15ms Typ. (100V AC), 120ms Typ. (230V AC) (at rated output)
t	Start Time	200ms max. (at rated input and output)	650ms max. (at rated input and output)
Output	Rise Time	100ms max. (at rated input and output)	300ms max. (at rated input and output)
no	Input Fluctuation	48 mV max.	0.4% max.
	Load Fluctuation	100 mV max.	1% max.
	Temperature Fluctuation Ripple -25 to 10°C	150 mV max.(-10 to 50°C)	0.05%/°C max. (-10 to 50°C)
		-	6% p-p max.
		200 mV max.	2.5% p-p max.
	noise) 0 to 50°C	150 mV max.	1.5% p-p max.
ntary ns	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Supplementary Functions	Overvoltage Protection	120% min. (*3)	Intermittent operation, auto reset at 120% min.
Supp	Operation Indicator	LED (green)	LED (green)
Dielectric Strength		Between input and output terminals: 2000V 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
Insu	lation 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)
Ope	rating Temperature	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
Ope	rating Humidity	20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
Vibr	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Sho	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	70H x 27W x 68D (with cover: 70H x 32W x 68D)	50.8H x 34W x 65D (with cover)
	Weight (approx.)	110g	135g
	Terminal Screw	M3.5	M3
Structure	Terminal Arrangement		

## Comparison of specifications (PS3N-A24A\*\*N -> PS3V-015AF24C)

	Description	PS3N-A24A**N	PS3V-015AF24C
	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
nput	Frequency	47Hz to 63Hz	47Hz to 63Hz
L	Input Current (at rated output)	100V: 0.27A (Typ.), 200V: 0.15A (Typ.)	100V: 0.32A (Typ.), 230V: 0.2A (Typ.)
	Inrush Current	100V: 30A max., 200V: 60A max.	40A Typ. (at 100V AC), 60A Typ. (at 230V AC) (*1)
	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max.
	Efficiency (Typ.)	79%	84%/100VAC, 83%/230VAC (at rated output)
	Rated Voltage/Current	24V, 0.5A	24V, 0.63A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	20 ms typ. (100V AC), 130 ms typ. (230V AC) (at rated output)
Ħ	Start Time	200ms max. (at rated input and output)	650ms max. (at rated input and output)
Output	Rise Time	100ms max. (at rated input and output)	300ms max. (at rated input and output)
no	Input Fluctuation	96mV max.	0.4% max.
	Load Fluctuation	150mV max.	1% max.
	Temperature Fluctuation Ripple -25 to 10°C	290mV max. (-10 to 50°C)	0.05%/°C max. (-10 to 50°C)
	Ripple -25 to 10°C	-	4%p-p max.
		200mV max.	1.5%p-p max.
	noise) 0 to 50°C	150mV max.	1%p-p max.
ntary IS	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Supplementary Functions	Overvoltage Protection	120% min. (*3)	Intermittent operation, auto reset at 120% min.
Supp	Operation Indicator	LED (green)	LED (green)
		Between input and output terminals: 2000V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute
Diel	ectric Strength	Between input and ground terminals: 2000V AC, 1 minute	Between input and ground terminals: 2000V AC, 1 minute
		Between output and ground terminals: 500V AC, 1 minute	Between output and ground terminals: 500V AC, 1 minute
Insu	lation 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)
	rating Temperature	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
Ope	rating Humidity	20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
Vibr	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Sho	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	70H x 27W x 68D (with cover: 70H x 32W x 68D)	50.8H x 34W x 65D (with cover)
	Weight (approx.)	110g	135g
	Terminal Screw	M3.5	M3
Structure	Terminal Arrangement		

## Comparison of specifications (PS3N-B05A\*\*N -> PS3V-015AF05C)

		[	
	Description	PS3N-B05A**N	PS3V-015AF05C
	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
nput	Frequency	47Hz to 63Hz	47Hz to 63Hz
Ч	Input Current (at rated output)	100V: 0.36A (Typ.), 200V: 0.21A (Typ.)	100V: 0.32A (Typ.), 230V: 0.2A (Typ.)
	Inrush Current	100V: 30A max., 200V: 50A max.	40A Typ. (at 100V AC), 60A Typ. (at 230V AC) (*1)
	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max.
	Efficiency (Typ.)	73%	77% 100VAC, 76% 230VAC(at rated output)
	Rated Voltage/Current	5V, 3A	5V, 3A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	15ms Typ. (100V AC), 120ms Typ. (230V AC) (at rated output)
Ŧ	Start Time	200ms max. (at rated input and output)	650ms max. (at rated input and output)
Output	Rise Time	100ms max. (at rated input and output)	300ms max. (at rated input and output)
0 0	Input Fluctuation	20mV max.	0.4% max.
	E Load Fluctuation	40mV max.	1% max.
	Temperature Fluctuation Ripple -25 to 10°C	60mV max. (-10 to 50°C)	0.05%/°C max. (-10 to 50°C)
	B Ripple -25 to 10°C	-	8%p-p max.
		160mV max.	5%p-p max.
	noise) 0 to 50°C	100mV max.	2.5%p-p max.
ntary ns	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Supplementary Functions	Overvoltage Protection	120% min. (*3)	Intermittent operation, auto reset at 120% min.
Supp	Operation Indicator	LED (green)	LED (green)
		Between input and output terminals: 2000V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute
Diel	ectric Strength	Between input and ground terminals: 2000V AC, 1 minute	Between input and ground terminals: 2000V AC, 1 minute
		Between output and ground terminals: 500V AC, 1 minute	Between output and ground terminals: 500V AC, 1 minute
Insu	lation 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)
	erating Temperature	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
Stor	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
Ope	erating Humidity	20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Sho	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	69H x 30W x 76D (with cover: 69H x 34W x 76D)	50.8H x 34W x 65D (with cover)
	Weight (approx.)	160g	135g
	Terminal Screw	M3.5	M3
Structure	Terminal Arrangement		

## Comparison of specifications (PS3N-B12A\*\*N -> PS3V-015AF12C)

Description	PS3N-B12A**N	PS3V-015AF12C
Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
Frequency	47Hz to 63Hz	47Hz to 63Hz
Input Current (at rated output)	100V: 0.36A (Typ.), 200V: 0.21A (Typ.)	100V: 0.32A (Typ.), 230V: 0.2A (Typ.)
Inrush Current		40A Typ. (at 100V AC), 60A Typ. (at 230V AC) (*1)
Leakage Current		120V: 0.5mA max., 240V: 1mA max.
Efficiency (Typ.)	76%	82%/100VAC, 81%/230VAC (at rated 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	20ms min. (at rated input and output)	15ms Typ. (100V AC), 120ms Typ. (230V AC) (at rated output)
Start Time	200ms max. (at rated input and output)	650ms max. (at rated input and output)
Rise Time	100ms max. (at rated input and output)	300ms max. (at rated input and output)
Input Fluctuation	48mV max.	0.4% max.
Load Fluctuation	100mV max.	1% max.
-OF Temperature Fluctuation	150mV max. (-10 to 50°C)	0.05%/°C max. (-10 to 50°C)
B Ripple -25 to 10°C	-	6%p-p max.
	200mV max.	2.5%p-p max.
		1.5%p-p max.
	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Overvoltage Protection	120% min. (*3)	Intermittent operation, auto reset at 120% min.
Operation Indicator	LED (green)	LED (green)
lectric Strength	Between input and output terminals: 2000V AC, 1 minute Between input and ground terminals: 2000V 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	Between output and ground terminals: 500V AC, 1 minute
	(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)
	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
erating Humidity		20 to 90%RH (no condensation)
ration Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
ock Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
		50.8H x 34W x 65D (with cover)
		135g
Terminal Screw	M3.5	M3
Terminal Arrangement	V.ADJ +V -V +V +V +V +V +V +V +V +V +V +V +V +V +V	
	(Single-phase two-wire) Frequency Input Current (at rated output) Inrush Current Leakage Current Efficiency (Typ.) Rated Voltage/Current Adjustable Voltage Range Output Holding Time Start Time Rise Time Input Fluctuation Load Fluctuation Temperature Fluctuation 0 to 50°C Overcurrent Protection Overvoltage Protection Overvoltage Protection Overvoltage Protection Overvoltage Protection Overvoltage Protection Overvoltage Protection Overvoltage Protection Overvoltage Protection Coverourent Protection Overvoltage Protection Overvoltage Protection Overvoltage Protection Coversurent Protection Cove	Rated Input Voltage (Single-phase two-wire)       (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC         Input Current (at rated output)       100V: 0.36A (Typ.), 200V: 0.21A (Typ.)         Inrush Current (at rated output)       100V: 0.36A (Typ.), 200V: 0.21A (Typ.)         Inrush Current (at rated output)       100V: 0.5m max., 200V: 10A max.         Leakage Current Efficiency (Typ.)       76%         Rated Voltage/Current Adjustable Voltage/Current 200ms max. (at rated input and output)       12V, 1.3A         Adjustable Voltage/Current Adjustable Voltage/Current Einput Fluctuation Fluctuation       200ms max. (at rated input and output)         Start Time Fluctuation Fluctuation       100mV max.       100mV max.         Input Fluctuation Fluctua

## Comparison of specifications (PS3N-B24A\*\*N -> PS3V-015AF24C)

	Description	PS3N-B24A**N	PS3V-015AF24C
	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
Input	Frequency	47Hz to 63Hz	47Hz to 63Hz
lu I	Input Current (at rated output)	100V: 0.36A (Typ.), 200V: 0.21A (Typ.)	100V: 0.32A (Typ.), 230V: 0.2A (Typ.)
	Inrush Current	100V: 30A max., 200V: 50A max.	40A Typ. (at 100V AC), 60A Typ. (at 230V AC) (*1)
	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max.
	Efficiency (Typ.)	79%	84%/100VAC, 83%/230VAC (at rated output)
	Rated Voltage/Current	24V, 0.7A	24V, 0.63A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	20ms Typ. (100V AC), 130ms Typ. (230V AC) (at rated output)
rt	Start Time	200ms max. (at rated input and output)	650ms max. (at rated input and output)
Output	Rise Time	100ms max. (at rated input and output)	300ms max. (at rated input and output)
õ	Input Fluctuation	96mV max.	0.4% max.
	Load Fluctuation	150mV max.	1% max.
	Temperature Fluctuation	290mV max. (-10 to 50°C)	0.05%/°C max. (-10 to 50°C)
	Bipple -25 to 10°C		4%p-p max.
		200mV max.	1.5%p-p max.
	noise) 0 to 50°C	150mV max.	1%p-p max.
ntary ns	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Supplementary Functions	Overvoltage Protection	120% min. (*3)	Intermittent operation, auto reset at 120% min.
Supp	Operation Indicator	LED (green)	LED (green)
		Between input and output terminals: 2000V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute
Diel	ectric Strength	Between input and ground terminals: 2000V AC, 1 minute	Between input and ground terminals: 2000V AC, 1 minute
		Between output and ground terminals: 500V AC, 1 minute	Between output and ground terminals: 500V AC, 1 minute
Insu	lation 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)
	rating Temperature	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
Ope	rating Humidity	20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
Vibr	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Sho	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	69H x 30W x 76D (with cover: 69H x 34W x 76D)	50.8H x 34W x 65D (with cover)
	Weight (approx.)	160g	135g
	Terminal Screw	M3.5	M3
Structure	Terminal Arrangement	V.ADJ +V -V +V AC AC	AC(L) AC(N)
Structure	Terminal Arrangement		

## Comparison of specifications (PS3N-C05A\*\*N -> PS3V-030AF05C)

	Description	PS3N-C05A**N	PS3V-030AF05C
	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
nput	Frequency	47Hz to 63Hz	47Hz to 63Hz
<u>_</u>	Input Current (at rated output)	100V: 0.65A (Typ.), 200V: 0.36A (Typ.)	100V: 0.66A (Typ.), 230V: 0.35A (Typ.)
	Inrush Current	100V: 40A max., 200V: 60A max.	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*1)
	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max.
	Efficiency (Typ.)	71%	77%/100VAC, 77%/230VAC (at rated output)
	Rated Voltage/Current	5V, 5A	5V, 6A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	18ms Typ. (100V AC), 110ms Typ. (230V AC) (at rated output)
ŧ	Start Time	200ms max. (at rated input and output)	650ms max. (at rated input and output)
Output	Rise Time	100ms max. (at rated input and output)	200ms max. (at rated input and output)
no	Input Fluctuation	20mV max.	0.4% max.
	Load Fluctuation	40mV max.	1% max.
	Fluctuation Ripple -25 to 10°C	60mV max. (-10 to 50°C)	0.05%/°C max. (-10 to 50°C)
	Ripple -25 to 10°C	-	8%p-p max.
	<sup> </sup> (including −10 to 0°C	160mV max.	5%p-p max.
	noise) 0 to 50°C	100mV max.	2.5%p-p max.
itary Is	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Supplementary Functions	Overvoltage Protection	120% min. (*3)	Output off at 120% min., reset by turning on the input again
IdnS F	Operation Indicator	LED (green)	LED (green)
		Between input and output terminals: 2000V AC, 1 minute	Between input and output terminals: 3000V AC, 1 minute
Diel	ectric Strength	Between input and ground terminals: 2000V AC, 1 minute	Between input and ground terminals: 2000V AC, 1 minute
		Between output and ground terminals: 500V AC, 1 minute	Between output and ground terminals: 500V AC, 1 minute
Insu	lation 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)
Ope	rating Temperature	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
	rating Humidity	20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
Vibr	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Sho	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	68.5H x 30.5W x 95.5D	68.5H x 34.5W x 95.5D (with cover)
	Weight (approx.)	(with cover: 68.5H x 34.5W x 95.5D) 210g	190g
	Terminal Screw	M3.5	M3.5
Structure	Terminal Arrangement	V.ADJ +V -V +V +V	
	$\Gamma_2 = 25^{\circ} \Gamma_1$ cold start		

## Comparison of specifications (PS3N-C12A\*\*N -> PS3V-030AF12C)

	Description Rated Input Voltage (Single-phase two-wire) Frequency Input Current (at rated output) Inrush Current Leakage Current Efficiency (Typ.) Rated Voltage/Current	PS3N-C12A**N 100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC) 47Hz to 63Hz 100V: 0.65A (Typ.), 200V: 0.36A (Typ.) 100V: 40A max., 200V: 60A max. 100V: 0.5mA max., 200V: 1mA max. 80%	PS3V-030AF12C 100 to 240V AC (Voltage Range: 85 to 264V AC) 47Hz to 63Hz 100V: 0.66A (Typ.), 230V: 0.35A (Typ.) 18A typ. (at 100V AC), 45A typ. (at 230V AC) (*1)
	(Single-phase two-wire) Frequency Input Current (at rated output) Inrush Current Leakage Current Efficiency (Typ.) Rated Voltage/Current	(Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC) 47Hz to 63Hz 100V: 0.65A (Typ.), 200V: 0.36A (Typ.) 100V: 40A max., 200V: 60A max. 100V: 0.5mA max., 200V: 1mA max.	(Voltage Range: 85 to 264V AC) 47Hz to 63Hz 100V: 0.66A (Typ.), 230V: 0.35A (Typ.)
	Input Current (at rated output) Inrush Current Leakage Current Efficiency (Typ.) Rated Voltage/Current	100V: 0.65A (Typ.), 200V: 0.36A (Typ.) 100V: 40A max., 200V: 60A max. 100V: 0.5mA max., 200V: 1mA max.	100V: 0.66A (Typ.), 230V: 0.35A (Typ.)
	(at rated output) Inrush Current Leakage Current Efficiency (Typ.) Rated Voltage/Current	100V: 40A max., 200V: 60A max. 100V: 0.5mA max., 200V: 1mA max.	
	Leakage Current Efficiency (Typ.) Rated Voltage/Current	100V: 0.5mA max., 200V: 1mA max.	18A typ. (at 100V AC). 45A typ. (at 230V AC) (*1)
	Efficiency (Typ.) Rated Voltage/Current		
_	Rated Voltage/Current		120V: 0.5mA max., 240V: 1mA max. 83%/100VAC, 83%/230VAC (at rated output)
	=		
	Adjustable Valtage	12V, 2.5A	12V, 2.5A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min.(at rated input and output)	18ms Typ. (100V AC), 110ms Typ. (230V AC) (at rated output)
	Start Time	200ms max.(at rated input and output)	650ms max.(at rated input and output)
	Rise Time	100ms max.(at rated input and output)	200ms max.(at rated input and output)
	Input Fluctuation	48mV max.	0.4% max.
l	Load Fluctuation	100mV max.	1% max.
	5 Temperature Fluctuation	150mV max.(-10 to +50°C)	0.05%/°C max.(-10 to 50°C)
	Ripple -25 to	-	6%p-p max.
	(including -10 to 0°C	200mV max.	2.5%p-p max.
	0 to 50°C	150mV max.	1.5%p-p max.
2	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Overvoltage Protection		120% min. (*3)	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: 2000V 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
ula	ation 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)
		-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
			-25 to 75°C (no freezing)
era	rating Humidity		20 to 90%RH (no condensation)
ra	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Shock Resistance		200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	68.5H x 30.5W x 95.5D	68.5H x 34.5W x 95.5D (with cover)
F	Weight (approx.)	210g	190g
	Terminal Screw	M3.5	M3.5
,	Terminal Arrangement	V.ADJ +V -V AC AC	
		Temperature         Fluctuation         Ripple       -25       to         Ino'C       -10 to 0°C       0 to 50°C         Overcurrent Protection       Overcurrent Protection         Overvoltage Protection       Operation Indicator         ectric Strength	Temperature Fluctuation       150mV max.(-10 to +50°C)         Ripple (including noise)       -25 -10 to 0°C 0 to 50°C       -         Overcurrent Protection       105% min. (auto reset) (*2)         Overvoltage Protection       120% min. (*3)         Operation Indicator       LED (green)         Between input and output terminals: 2000V AC, 1 minute Between output and ground terminals: 2000V AC, 1 minute Between output and ground terminals: 500V AC, 1 minute         Idation Resistance       100MQ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals)         Interpretature       -10 to 60°C (no freezing)         Interpretature       -30 to 75°C (no freezing)         Interpretature       -30 to 75°C (no freezing)         Interpretature       -10 to 55Hz, 20m/s² constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes         Ck Resistance       200 m/s², 11 ms, 1 shock each in 6 axes         Dimensions (mm)       68.5H x 30.5W x 95.5D (with cover: 68.5H x 34.5W x 95.5D)         Weight (approx.)       210g         Terminal Arrangement       V.ADJ

## Comparison of specifications (PS3N-C24A\*\*N -> PS3V-030AF24C)

	Description	PS3N-C24A**N	PS3V-030AF24C
	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
nput	Frequency	47Hz to 63Hz	47Hz to 63Hz
<u>_</u>	Input Current (at rated output)	100V: 0.65A (Typ.), 200V: 0.36A (Typ.)	100V: 0.66A (Typ.), 230V: 0.35A (Typ.)
-	Inrush Current	100V: 40A max., 200V: 60A max.	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*1)
-	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max.
	Efficiency (Typ.) Rated Voltage/Current	85%	85%/100VAC, 84%/230VAC (at rated output)
-	Adjustable Voltage	24V, 1.3A	24V, 1.3A
	Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	18ms Typ. (100V AC), 110ms Typ. (230V AC) (at rated output)
t	Start Time	200ms max. (at rated input and output)	650ms max. (at rated input and output)
Output	Rise Time	100ms max. (at rated input and output)	200ms max. (at rated input and output)
Ő	Input Fluctuation	96mV max.	0.4% max.
	E Load Fluctuation	150mV max.	1% max.
	C Load Fluctuation Temperature Fluctuation	290mV max. (-10 to 50°C)	0.05%/°C max.(-10 to 50°C)
	Ripple -25 to 10°C	-	4%p-p max.
		200mV max.	1.5%p-p max.
	noise) 0 to 50°C	150mV max.	1%p-p max.
ntary Is	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Supplementary Functions	Overvoltage Protection	120% min. (*3)	Output off at 120% min., reset by turning on the input again
Sup	Operation Indicator	LED (green)	LED (green)
Diele	ectric Strength	Between input and output terminals: 2000V 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
Insu	lation 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)
	rating Temperature	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
Ope	rating Humidity	20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
Vibra	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Sho	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	68.5H x 30.5W x 95.5D (with cover: 68.5H x 34.5W x 95.5D)	68.5H x 34.5W x 95.5D (with cover)
	Weight (approx.)	210g	190g
	Terminal Screw	M3.5	M3.5
Structure	Terminal Arrangement	V.ADJ +V +V +V +V +V +V +V +V +V +V +V +V +V	
Ц	a = 25°C, cold start		

## Comparison of specifications (PS3N-D12A\*\*N -> PS3V-050AF12C)

	Description	PS3N-D12A**N	PS3V-050AF12C
	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
nput	Frequency	47Hz to 63Hz	47Hz to 63Hz
<u>_</u>	Input Current (at rated output)	100V: 1.15A (Typ.), 200V: 0.65A (Typ.)	100V: 1.1A (Typ.), 230V: 0.6A (Typ.)
	Inrush Current	100V: 40A max., 200V: 60A max.	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*1)
	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max.
	Efficiency (Typ.)	80%	84%/100VAC, 84%/230VAC (at rated output)
	Rated Voltage/Current	12V, 4.5A	12V, 4.5A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	17ms Typ. (100V AC), 125ms Typ. (230V AC) (at rated output)
Ħ	Start Time	400ms max. (at rated input and output)	650ms max. (at rated input and output)
Output	Rise Time	200ms max. (at rated input and output)	200ms max. (at rated input and output)
õ	Input Fluctuation	48mV max.	0.4% max.
	Load Fluctuation	100mV max.	1% max.
	Fluctuation	150mV max. (-10 to 50°C)	0.05%/°C max. (-10 to 50°C)
	Ripple -25 to 10°C	-	6%p-p max.
	(including -10 to 0°C noise) 0 to 50°C	200mV max. 150mV max.	2.5%p-p max. 1.5%p-p max.
~	101se) 010 50°C	ISUMV Max.	1.5%p-p max.
entar) Ins	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Supplementary Functions	Overvoltage Protection	Output off at 130% (Typ.), reset by turning on the input again (*3)	Output off at 120% min., reset by turning on the input again
IdnS	Operation Indicator	LED (green)	LED (green)
		Between input and output terminals: 2000V AC, 1 minute Between input and ground terminals:	Between input and output terminals: 3000V AC, 1 minute Between input and ground terminals:
Diele	ectric Strength	2000V AC, 1 minute Between output and ground terminals:	2000V AC, 1 minute Between output and ground terminals:
		500V AC, 1 minute	500V AC, 1 minute
Insu	lation Resistance	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)	100M $\Omega$ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)
Ope	rating Temperature	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
	rating Humidity	20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
Vibr	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Sho	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	85H x 33W x 118.5D	80H x 36W x 99D (with cover)
		(with cover: 85H x 37W x 118.5D)	. ,
	Weight (approx.)	230g	230g
	Terminal Screw	M3.5	M3.5
Structure	Terminal Arrangement	V.ADJ	

# Comparison of specifications (PS3N-D24A\*\*N -> PS3V-050AF24C)

Description		PS3N-D24A**N	PS3V-050AF24C
	Description		1 33V-030AF 240
	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
Input	Frequency	47Hz to 63Hz	47Hz to 63Hz
	Input Current (at rated output)	100V: 1.15A (Typ.), 200V: 0.65A (Typ.)	100V: 1.1A (Typ.), 230V: 0.6A (Typ.)
	Inrush Current	100V: 40A max., 200V: 60A max.	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*1)
-	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max.
	Efficiency (Typ.)	83%	87%/100VAC, 87%/230VAC (at rated output)
	Rated Voltage/Current	24V, 2.3A	24V, 2.3A
	Adjustable Voltage Range	±10%	$\pm 10\%$ (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	17ms Typ. (100V AC), 125ms Typ. (230V AC) (at rated output)
ŧ	Start Time	400ms max. (at rated input and output)	650ms max. (at rated input and output)
Output	Rise Time	200ms max. (at rated input and output)	200ms max. (at rated input and output)
õ	Input Fluctuation	96mV max.	0.4% max.
	E Load Fluctuation	150mV max.	1% max.
	Cload Fluctuation Temperature Fluctuation Ripple -25 to 10°C	290mV max. (-10 to 50°C)	0.05%/°C max. (-10 to 50°C)
	Ripple -25 to 10°C	-	4%p-p max.
	(including -10 to 0°C	200mV max.	1.5%p-p max.
	noise) 0 to 50°C	150mV max.	1%p-p max.
ntary ns	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
Supplementary Functions	Overvoltage Protection	Output off at 130% (Typ.), reset by turning on the input again (*3)	Output off at 120% min., reset by turning on the input again
dns L	Operation Indicator	LED (green)	LED (green)
Diele	ectric Strength	Between input and output terminals: 2000V 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
Insu	lation 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)
	rating Temperature	-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
Ope	rating Humidity	20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
Vibra	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
Sho	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
	Dimensions (mm)	85H x 33W x 118.5D (with cover: 85H x 37W x 118.5D)	80H x 36W x 99D (with cover)
	Weight (approx.)	230g	230g
	Terminal Screw	M3.5	M3.5
	-		
Structure	Terminal Arrangement		
	$r_{0} = 25^{\circ}C$ and start		

## Comparison of specifications (PS3N-E24A\*\*N -> PS3V-100AF24C)

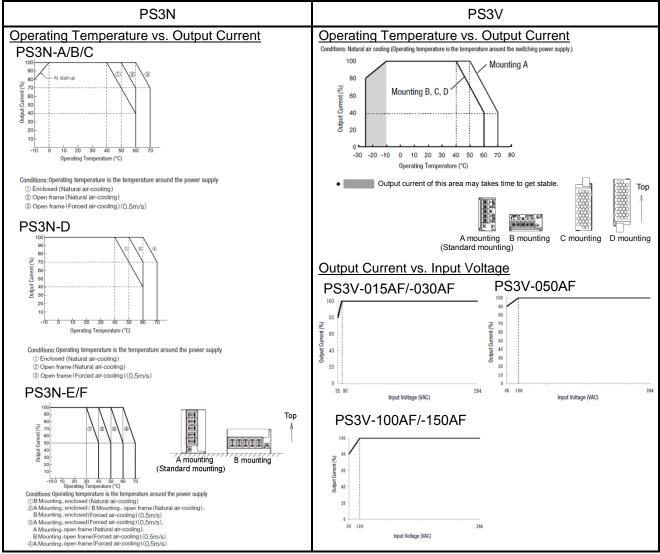
	Description	PS3N-E24A**N	PS3V-100AF24C
	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
-		47Hz to 63Hz	47Hz to 63Hz
-	(at rated output)	100V: 2.2A (Typ.), 200V: 1.2A (Typ.)	100V: 1.3A (Typ.), 230V: 0.6A (Typ.)
			18A typ. (at 100V AC), 45A typ. (at 230V AC) (*1)
-			120V: 0.5mA max., 240V: 1mA max.
-			85%/100VAC, 88%/230VAC (at rated output) 0.98/100VAC, 0.9/230VAC (at rated output)
ľ	Rated Voltage/Current	24V, 4.5A	24V, 4.5A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	35ms Typ. (100V AC), 35ms Typ. (230V AC) (at rated output)
ŀ			650ms max. (at rated input and output)
-  -			200ms max. (at rated input and output) 0.4% max.
1	Lead Elucturation		0.4% max. 1% max.
		290mV max.(-10 to +50°C)	0.05%/°C max.(-10 to 50°C)
	Bipple -25 to 10°C	-	4%p-p max.
	(including -10 to 0°C	200mV max.	1.5%p-p max.
	noise) 0 to 50°C	150mV max.	1%p-p max.
2	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
	Overvoltage Protection	Output off at 130% (Typ.), reset by turning on the input again (*3)	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: 2000V 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
ul	lation Resistance	$100M\Omega$ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between	100MΩ min. 500V DC megger (at 25°C, 70% RH) (between input and output terminals, between input and ground terminals)
		-10 to 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
ora	age Temperature	-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
e	rating Humidity		20 to 90%RH (no condensation)
ora	ation Resistance	10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z axes
00	ck Resistance	200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
T	Dimensions (mm)	93H x 34.5W x 150D (with cover: 93H x 39W x 150D)	93H x 39W x 108D (with cover)
	Weight (approx.)	460g	380g
ļ	Terminal Screw	M4	M3.5
	Terminal Arrangement	VADJ 0 +S +V -V -S AC AC	
		Rated Input Voltage (Single-phase two-wire) Frequency Input Current (at rated output) Inrush Current Leakage Current Efficiency (Typ.) Power Factor (Typ.) Rated Voltage/Current Adjustable Voltage Range Output Holding Time Start Time Rise Time Input Fluctuation Consel 10 to 0°C (including -10 to 0°C noise) 0 to 50°C Overcurrent Protection Overvoltage Protection Overvoltage Protection Operation Indicator	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)         Frequency       47Hz to 63Hz         Input Current (at rated output)       100V: 2.2A (Typ.), 200V: 1.2A (Typ.)         Inrush Current       100V: 20A max., 200V: 20A max.         Leakage Current       100V: 0.5mA max., 200V: 1mA max.         Efficiency (Typ.)       85%         Power Factor (Typ.)       -         Rated Voltage/Current       24V, 4.5A         Adjustable Voltage Range       ±10%         Output Holding Time       20ms min. (at rated input and output)         Start Time       400ms max. (at rated input and output)         Rise Time       200mV max.         Temperature       290mV max.(-10 to +50°C)         Flipple       -25 to 10°C         (including -10 to 0°C       200mV max.         Overcurrent Protection       105% min. (auto reset) (*2)         Overvoltage Protection       Output off at 130% (Typ.), reset by turning on the input again (*3)         Operation Indicator       LED (green)         Between input and output terminals: 2000V AC, 1 minute Between output and ground terminals: 2000V AC, 1 minute Between unput and ground terminals: 500V AC, 1 minute Between input and ground terminals; between input and ground terminals; between input and ground terminals)         arating Temperature       -30 to 56°C

## Comparison of specifications (PS3N-F24A\*\*N -> PS3V-150AF24C)

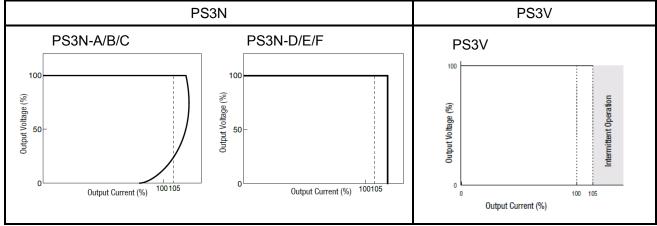
Description		PS3N-F24A**N	PS3V-150AF24C
Description			F 33V-130AI 240
Input	Rated Input Voltage (Single-phase two-wire)	100V AC (Voltage Range: 85 to 132V AC/105 to 170V DC) 200V AC (Voltage Range: 170 to 264V AC/210 to 340V DC)	100 to 240V AC (Voltage Range: 85 to 264V AC)
	Frequency	47Hz to 63Hz	47Hz to 63Hz
	Input Current (at rated output)	100V: 3.2A (Typ.), 200V: 1.85A (Typ.)	100V: 1.9A (Typ.), 230V: 0.9A (Typ.)
	Inrush Current	100V: 20A max., 200V: 20A max.	18A typ. (at 100V AC), 45A typ. (at 230V AC) (*1)
	Leakage Current	100V: 0.5mA max., 200V: 1mA max.	120V: 0.5mA max., 240V: 1mA max.
	Efficiency (Typ.)	85%	85%/100VAC, 88%/230VAC (at rated output)
	Power Factor (Typ.)	-	0.98/100VAC, 0.95/230VAC (at rated output)
Output	Rated Voltage/Current	24V, 6.5A	24V, 6.5A
	Adjustable Voltage Range	±10%	±10% (Adjustable by front and V.ADJ volume)
	Output Holding Time	20ms min. (at rated input and output)	24ms Typ. (100V AC), 24ms Typ. (230V AC) (at rated output)
	Start Time	400ms max. (at rated input and output)	650ms max. (at rated input and output)
	Rise Time	200ms max. (at rated input and output)	200ms max. (at rated input and output)
	Input Fluctuation	96mV max.	0.4% max.
	C Load Fluctuation	150mV max.	1% max.
	Clad Fluctuation Temperature Fluctuation Ripple -25 to 10°C	290mV max. (-10 to +50°C)	0.05%/°C max. (-10 to 50°C)
	Ripple -25 to 10°C	-	4%p-p max.
	(including -10 to 0°C	200mV max.	1.5%p-p max.
	noise) 0 to 50°C	150mV max.	1%p-p max.
Supplementary Functions	Overcurrent Protection	105% min. (auto reset) (*2)	105% min. (auto reset) (*2)
	Overvoltage Protection	Output off at 130% (Typ.), reset by turning on the input again (*3)	Output off at 120% min., reset by turning on the input again
Sup	Operation Indicator	LED (green)	LED (green)
Dielectric Strength		Between input and output terminals: 2000V 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 60°C (no freezing, see output derating) (*4)	-25 to 70°C (no freezing, see output derating)
Storage Temperature		-30 to 75°C (no freezing)	-25 to 75°C (no freezing)
Operating Humidity		20 to 90%RH (no condensation)	20 to 90%RH (no condensation)
Vibration Resistance		10 to 55Hz, 20m/s <sup>2</sup> constant, sweep cycle 1 minute, 2 hours each in X, Y, Z axes	10 to 55Hz, 2G constant, 2 hours each in X, Y, Z
Shock Resistance		200 m/s <sup>2</sup> , 11 ms, 1 shock each in 6 axes	axes 200 m/s <sup>2</sup> , 11ms, 1 shock each in 6 axes
Structure	Dimensions (mm)	93H x 39.5W x 170D (with cover: 93H x 44W x 170D)	95H x 39W x 159D (with cover)
	Weight (approx.)	(With cover. 93H x 44VV x 170D) 640g	510g
	Terminal Screw	M4	M3.5
	Terminal Arrangement	VADJ 0 +S +V -V -V -V -S +C AC	AC (L) AC (N)
L	$F_{2} = 2F^{\circ}C_{2}$ and start		

### Derating curves, overcurrent protection characteristics

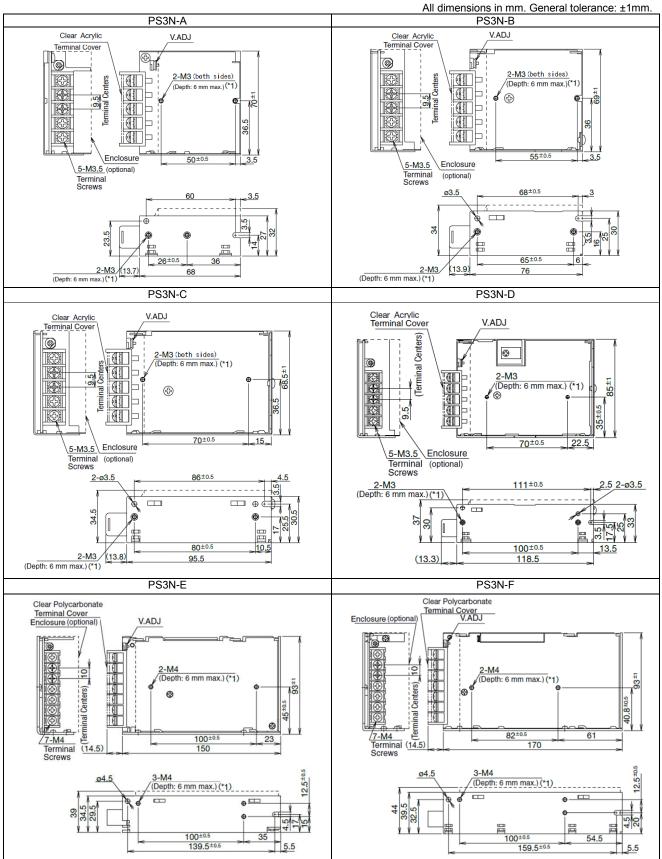
#### Derating Curves





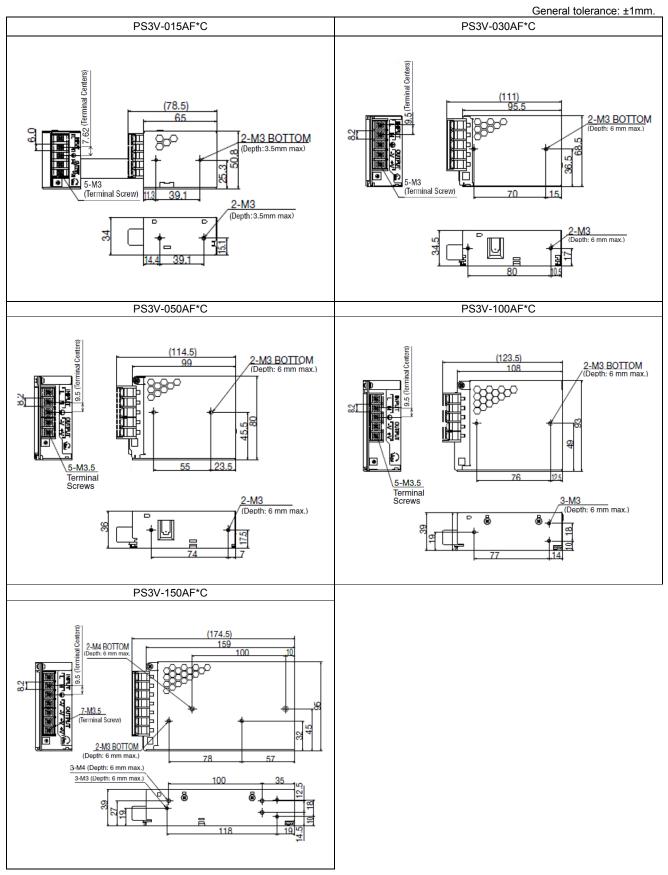


### **PS3N** Dimensions



(\*1) Make sure that the mounting screws do not penetrate into the power supply unit for 6 mm or more.

### **PS3V** Dimensions



All dimensions in mm.

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