

Specifications by model DC12V

No.	Specification	PNK120012FD	PNK150012FD	PNK200012FD	PNK250012FD	PNK300012FD	PNK500012FD	Limit	
1	DC input voltage	DC13.4V						11.0V~16.0V	
2	Output power continuous	1.2KW/220V	1.5KW/220V	2KW/220V	2.5KW/220V	3KW/220V	5KW/220V	220V±3%	
3	Surge rating (power)	2.4KW	3KW	4KW	5KW	6KW	10KW	±10%	
4	Efficiency (output)	normal 89% / max 87%						±3%	
5	No load current	no fan	1.34A	1.54A	1.50A	1.43A	1.20A	2.87A	±0.3A
	No load current	on fan	1.56A	1.93A	2.07A	2.10A	1.77A	4.10A	
6	Distortion factor THD	1000W 1.1%						Max 2.0%	
7	Lead-acid battery (Regular battery)	Low battery shut down / return	Low battery shut down 10.0V / return 11.4V						±0.5V
		High battery shut down / return	High battery shut down 17.0V / return 15.4V						±1.0V
8	Lithium-ion battery	Low battery shut down / return	Low battery shut down 9.0V / return 10.2V						±0.5V
		High battery shut down / return	High battery shut down 15.0V / return 13.9V						±1.0V
9	Frequency selection	60Hz --- 50Hz selection						±0.5Hz	
10	Output power & voltage regulation	1.2KW/220V	1.5KW/220V	2KW/220V	2.5KW/220V	3KW/220V	5KW/220V	±3%	
11	Over temperature protection / return	-40°C ~ 75°C / return 58°C						±5°C	
12	Auto cooling Fan Operating Temperature	40°C						±5°C	
13	Output wave form	pure sine wave (D.S.P)							
14	Insulation transformer tester (withstand voltage)	2KV ~ 2.5KV (± 0.5KV)							
15	Overload protection	Input Midi(car) fuse	40A(3EA) Car fuse	125A Midi fuse	80A(2EA) Midi fuse	100A(2EA) Midi fuse	125A(2EA) Midi fuse	100A(4EA) Midi fuse	
		Output sensor	Output auto surge blocking/short protect						
		Output breaker(reset) switch	5A or 6A	6A or 7A	9A or 10A	11A or 12A	14A or 15A or 16A	15A 25A or 30A	SS-001 DCP-PR
		AC outlet	2P-16A						
16	Function display check meter	DCV / ACV / ACA / HZ / CEL / ER1. ER2							
17	KC/CE/ROHS Certification	specification inspection testing							
18	USB data 5V	DC 5.0V / 1000mA(1.0A)							
19	Exterior specification [WXHXD (mm)]	225X90X325	225X90X400	225X90X440	225X90X480	225X90X510	199X155X498		
	Dimensions [WXHXD (inch)]	8.9X3.5X12.8	8.9X3.5X15.8	8.9X3.5X17.3	8.9X3.5X18.9	8.9X3.5X20.1	7.8X6.1X19.6		
20	Weight (Kg / lbs)	4.3Kg	5.3Kg	5.6Kg	6.4Kg	6.9Kg	11.5Kg		
		9.48lbs	11.68lbs	12.35lbs	14.11lbs	15.21lbs	25.35lbs		

■ equipment used: generator replacement, Induction, solar panel(independent type), equipment malfunctioning in modified sine wave, other electrical and electronic products, and others.

※ Use within the output(W) range of this product.

 Specifications by model DC24V

No.	Specification	PNK120024FD	PNK150024FD	PNK200024FD	PNK250024FD	PNK300024FD	PNK500024FD	Limit	
1	DC input voltage	DC26.8V						21.0V~30.0V	
2	Output power continuous	1.2KW/220V	1.5KW/220V	2KW/220V	2.5KW/220V	3KW/220V	5KW/220V	220V±3%	
3	Surge rating (power)	2.4KW	3KW	4KW	5KW	6KW	10KW	±10%	
4	Efficiency (output)	normal 91% / max 87%						±3%	
5	No load current	no fan	0.77A	0.85A	1.20A	1.25A	1.29A	1.81A	±0.3A
	No load current	on fan	0.88A	1.06A	1.77A	1.64A	1.59A	2.59A	
6	Distortion factor THD	1000W 1.1%						Max 2.0%	
7	Lead-acid battery (Regular battery)	Low battery shut down / return	Low battery shut down 20.0V / return 23.0V					±1.0V	
		High battery shut down / return	High battery shut down 32.0V / return 30.5V					±1.5V	
8	Lithium-ion battery	Low battery shut down / return	Low battery shut down 18.0V / return 20.8V					±1.0V	
		High battery shut down / return	High battery shut down 29.0V / return 27.4V					±1.5V	
9	Frequency selection	60Hz ~ 50Hz selection						±0.5Hz	
10	Output power & voltage regulation	1.2KW/220V	1.5KW/220V	2KW/220V	2.5KW/220V	3KW/220V	5KW/220V	±3%	
11	Over temperature protection / return	-40°C ~ 75°C / return 58°C						±5°C	
12	Auto cooling Fan Operating Temperature	40°C						±5°C	
13	Output wave form	pure sine wave (D.S.P)							
14	Insulation transformer tester (withstand voltage)	2KV ~ 2.5KV(± 0.5KV)							
15	Overload protection	Input Midi(car) fuse	30A(2EA) or 25A(2EA) Car fuse	6A Midi fuse	80A or 90A Midi fuse	100A or 110A Midi fuse	125A or 140A Midi fuse	100A(2EA) Midi fuse	
		Output sensor	Output auto surge blocking/short protect						
		Output breaker(reset) switch	5A or 6A	6A or 7A	9A or 10A	11A or 12A	14A or 15A or 16A	15A 25A or 30A	SS-001 DCP-PR
		AC outlet	2P-16A						
16	Function display check meter	DCV / ACV / ACA / HZ / CEL / ER1, ER2							
17	KC/CE/ROHS Certification	specification inspection testing							
18	USB data 5V	DC 5.0V / 1000mA(1.0A)							
19	Exterior specification [WXHXD (mm)]	225X90X325	225X90X400	225X90X440	225X90X480	225X90X510	199X155X498		
	Dimensions [WXHXD (inch)]	8.9X3.5X12.8	8.9X3.5X15.8	8.9X3.5X17.3	8.9X3.5X18.9	8.9X3.5X20.1	7.8X6.1X19.6		
20	Weight (Kg / lbs)	4.3Kg	5.3Kg	5.6Kg	6.4Kg	6.9Kg	11.5Kg		
		9.48lbs	11.68lbs	12.35lbs	14.11lbs	15.21lbs	25.35lbs		

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Specifications by model DC48V

No.	Specification	PNK120048FD	PNK150048FD	PNK200048FD	PNK250048FD	PNK300048FD	PNK500048FD	Limit	
1	DC input voltage	DC53.6V						41.0V~59.0V	
2	Output power continuous	1.2KW/220V	1.5KW/220V	2KW/220V	2.5KW/220V	3KW/220V	5KW/220V	220V±3%	
3	Surge rating (power)	2.4KW	3KW	4KW	5KW	6KW	10KW	±10%	
4	Efficiency (output)	normal 91% / max 87%						±3%	
5	No load current	no fan	0.39A	0.42A	0.95A	1.08A	1.15A	0.75A	±0.3A
	No load current	on fan	0.53A	0.59A	1.52A	1.63A	1.72A	1.24A	
6	Distortion factor THD	1000W 1.1%						Max 2.0%	
7	Lead-acid battery (Regular battery)	Low battery shut down / return	Low battery shut down 40.0V / return 42.5V					±1.0V	
		High battery shut down / return	High battery shut down 61.0V / return 59.0V					±1.0V	
8	Lithium-ion battery	Low battery shut down / return	Low battery shut down 36.0V / return 38.8V					±1.0V	
		High battery shut down / return	High battery shut down 57.0V / return 55.4V					±1.0V	
9	Frequency selection	60Hz --- 50Hz selection						±0.5Hz	
10	Output power & voltage regulation	1.2KW/220V	1.5KW/220V	2KW/220V	2.5KW/220V	3KW/220V	5KW/220V	±3%	
11	Over temperature protection / return	-40°C ~ 75°C / return 58°C						±5°C	
12	Auto cooling Fan Operating Temperature	40°C						±5°C	
13	Output wave form	pure sine wave (D,S,P)							
14	Insulation transformer tester (withstand voltage)	2KV ~ 2.5KV(± 0.5KV)							
15	Overload protection	Input Midi(car) fuse	25A or 30A Car fuse	35A or 40A Midi fuse	40A Midi fuse	50A Midi fuse	60A or 70A Midi fuse	50A(2EA) Midi fuse	
		Output sensor	Output auto surge blocking/short protect						
		Output breaker(reset) switch	5A or 6A	6A or 7A	9A or 10A	11A or 12A	14A or 15A or 16A	15A 25A or 30A	SS-001 DCP-PR
		AC outlet	2P-16A						
16	Function display check meter	DCV / ACV / ACA / HZ / CEL / ER1, ER2							
17	KC/CE/ROHS Certification	specification inspection testing							
18	USB data 5V	DC 5.0V / 1000mA(1.0A)							
19	Exterior specification [WXHXD (mm)]	225X90X325	225X90X400	225X90X440	225X90X480	225X90X510	199X155X498		
	Dimensions [WXHXD (inch)]	8.9X3.5X12.8	8.9X3.5X15.8	8.9X3.5X17.3	8.9X3.5X18.9	8.9X3.5X20.1	7.8X6.1X19.6		
20	Weight (Kg / lbs)	4.3Kg	5.3Kg	5.6Kg	6.4Kg	6.9Kg	11.5Kg		
		9.48lbs	11.68lbs	12.35lbs	14.11lbs	15.21lbs	25.35lbs		

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