

DARDA®

digitalized product

DC to AC Power Inverter



With advanced concept
and technology we serve the value
digital modified sine wave
power inverter

P&K PNKHITECH CO., LTD

38, Namdongseo-ro 53beon-gil, (gojan-dong) Namdong-gu, Incheon city, Korea A-301,302

TEL : 82-32-830-7666 FAX : 82-32-822-2339 E-mail : pnk@pnkhitech.co.kr



ISO14001 / (EMC/EMI)



DP412 / DP424

DP512 / DP524

DP-1000AQ / DP-1500AQ
DP-1000BQ / DP-16024BQ / DP-12048Q

DP-2000AQ
DP-25024BQ / DP-25048Q

SI-1700AQ / SI-2200BQ
DP-3000AQ / DP-3000BQ
DP-40024BQ / DP-35048Q
DP-40048Q

SI-22012AQ
SI-2700AQ
SI-32024BQ

Modified sine wave (400W~1500W)

PARAMETER	DP412	DP512	DP424	DP524	DP-1000AQ	DP-1500AQ	DP-1000BQ	DP-16024BQ	DP-12048Q	
DC input voltage	12V		24V		12V		24V		48V	
DC voltage standard	13.4V		26.8V		13.4V		26.8V		52.8V	
AC voltage standard	AC228V		AC228V		AC228V		AC228V		AC228V	
Max output power time 15~16min	400W	500W	400W	500W	1200W	1500W	1200W	1600W	1000W	
Output power continuous	200W	300W	200W	300W	800W	1100W	800W	1100W	700W	
Surge rating	700W	800W	700W	900W	2000W	2500W	2000W	3000W	2000W	
Efficiency et rated power	89%		91%		89%		91%		91%	
Efficiency et max power	83%		88%		83%		88%		87%	
THD [max]	25%		25%		25%		25%		25%	
No load current	no fan	0.32A	0.36A	0.26A	0.25A	0.61A	0.57A	0.42A	0.42A	0.17A
	on fan	0.40A	0.42A	0.34A	0.32A	0.79A	0.78A	0.50A	0.53A	0.23A
Low battery shut down	9.7V	9.9V	19.6V	19.8V	10.0V		20.0V		40.2V	
Low battery return on power	11.1V	11.3V	21.8V	22.0V	11.2V		22.4V		44.0V	
High battery shut down	17.0V	17.2V	31.2V	31.6V	17.0V		31.0V		60.8V	
High battery return on power	15.0V	15.1V	29.0V	28.9V	15.0V		28.0V		56.0V	
Over temperature protection	-25°C ~ +76°C		-25°C ~ +76°C		-25°C ~ +76°C		-25°C ~ +76°C			
Over temperature power on	58°C		58°C		58°C		58°C			
Output wave form	Fan on temperature 41°C (±3°C)		Fan on temperature 41°C (±3°C)		Fan on temperature 41°C (±3°C)		Fan on temperature 41°C (±3°C)			
Dimensions [W×H×D(mm)]	69×50×202	118×50×192.5	69×50×202	118×50×192.5	166×82×230	166×82×290	166×82×230	166×82×290	166×82×230	
Weight	0.7KG	0.9KG	0.7KG	0.9KG	2.0KG	2.7KG	2.0KG	2.7KG	2.0KG	

Modified sine wave (2KW~4.3KW)

PARAMETER	DP-2000AQ	SI-1700AQ	DP-3000AQ	SI-22012AQ	SI-2700AQ	DP-25024BQ	SI-2200BQ	DP-3000BQ	DP-40024BQ	SI-32024BQ	DP-25048Q	DP-35048Q	DP-40048Q	
DC input voltage	12V					24V					48V			
DC voltage standard	13.4V					26.8V					53.0V			
AC voltage standard	AC228V					AC228V					AC228V			
Max output power time 15~16min	2000W	2500W	3000W	3500W	4000W	2500W	3000W	3500W	4000W	4300W	2500W	3500W	4000W	
Output power continuous	1500W	1800W	2200W	2600W	3000W	2000W	2400W	2800W	3200W	3500W	1800W	2600W	3200W	
Surge rating	4000W	5000W	6000W	7000W	8000W	5000W	6000W	7000W	8000W	8600W	5000W	7000W	8000W	
Efficiency et rated power	89%					91%					91%			
Efficiency et max power	83%					88%					87%			
THD [max]	25%					25%					25%			
No load current	no fan	0.58A	0.61A	0.61A	0.63A	0.66A	0.36A	0.36A	0.38A	0.40A	0.42A	0.17A	0.19A	0.21A
	on fan	0.98A	1.00A	1.13A	1.15A	1.22A	0.60A	0.70A	0.72A	0.82A	0.85A	0.34A	0.38A	0.42A
Low battery shut down	10.0V					20.0V					40.2V			
Low battery return on power	11.2V					22.4V					44.0V			
High battery shut down	17.0V					31.0V					60.8V			
High battery return on power	15.0V					28.0V					56.0V			
Over temperature protection	-25°C ~ +76°C					-25°C ~ +76°C					-25°C ~ +76°C			
Over temperature power on	58°C					58°C					58°C			
Output wave form	Fan on temperature 41°C (±3°C)					Fan on temperature 41°C (±3°C)					Fan on temperature 41°C (±3°C)			
Dimensions [W×H×D(mm)]	202×71×385	225×89×405	225×89×420	225×89×514	225×89×540	202×71×385	225×89×405	225×89×420	225×89×514	225×89×540	202×71×385	225×89×420	225×89×514	
Weight	3.3kg	4.0kg	4.5kg	5.7kg	5.9kg	3.3kg	4.0kg	4.5kg	4.9kg	5.6kg	3.3kg	4.5kg	4.8kg	

PRODUCT IN USE

Miniature vacuum cleaner, Small drill / Tool, Mini refrigerator, Acoustic device, Solar, Grinders(more than 1KW), ½ horsepower motor pumps(more than 1.5KW), A number of fluorescent lamps, TV/Monitor, Karaoke, Electric sign, Electric chargers, Counter, Warmer cabinet, Motor oxygen live fish, Mercerizing machine, Refrigerator, PC / Notebook, Other Electronic Products

FUNCTIONS

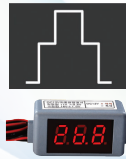
- Automatic overheat/overload input/output control
- Output short / over surge protection
- A low voltage by the program / for high-voltage operation function



DP-44012AQ / DP-6000AQ
 DP-6000BQ / DP-70048Q



DP-50024BQ / DP-55048Q



SI-5400AQ / SI-64024BQ / DP-95024BQ / SI-85048Q / DP-95048Q

Modified sine wave (5KW~7KW)

PARAMETER	DP-44012AQ	DP-6000AQ	DP-50024BQ	DP-6000BQ	DP-55048Q	DP-70048Q
DC input voltage	12V		24V		48V	
DC voltage standard	13.4V		26.8V		53.0V	
AC voltage standard	AC228V		AC228V		AC228V	
Max output power time 15~16min	5000W	6500W	5500W	7000W	5500W	7000W
Output power continuous	3600W	4900W	4500W	5600W	4500W	5300W
Surge rating	10KW	13KW	11KW	14KW	11KW	14KW
Efficiency et rated power	89%		91%		91%	
Efficiency et max power	83%		88%		87%	
THD [max]	25%		25%		25%	
No load current	no fan 0.80A on fan 1.75A	1.10A 1.97A	0.59A 1.25A	0.73A 1.50A	0.30A 0.64A	0.31A 0.72A
Low battery shut down	10.0V		20.0V		40.0V	
Low battery return on power	11.2V		22.0V		44.0V	
High battery shut down	17.0V		31.0V		60.8V	
High battery return on power	15.0V		28.0V		56.0V	
Over temperature protection	-25°C ~ +76°C		-25°C ~ +76°C		-25°C ~ +76°C	
Over temperature power on	58°C		58°C		58°C	
Output wave form	Fan on temperature 41°C (±3°C)		Fan on temperature 41°C (±3°C)		Fan on temperature 41°C (±3°C)	
Dimensions [W×H×D(mm)]	225×154×405	225×154×470	225×154×405	225×154×470	225×154×405	225×154×470
Weight	7.4kg	8.5kg	7.3kg	8.5kg	7.3kg	8.5kg

Modified sine wave (8KW~10.5KW)

PARAMETER	SI-5400AQ	SI-64024BQ	DP-95024BQ	SI-85048Q	DP-95048Q	
DC input voltage	12V		24V		48V	
DC voltage standard	13.4V		26.8V		53.0V	
AC voltage standard	AC228V		AC228V		AC228V	
Max output power time 15~16min	8000W	8500W	10.5KW	8500W	10.5KW	
Output power continuous	6000W	6500W	8400W	6600W	7900W	
Surge rating	16KW	17KW	21KW	17KW	21KW	
Efficiency et rated power	89%		91%		91%	
Efficiency et max power	83%		88%		87%	
THD [max]	25%		25%		25%	
No load current	no fan 1.27A on fan 2.00A	0.85A 1.63A	0.98A 1.98A	0.40A 0.82A	0.48A 0.94A	
Low battery shut down	10.0V		20.0V		40.0V	
Low battery return on power	11.2V		22.0V		44.0V	
High battery shut down	17.0V		31.0V		60.8V	
High battery return on power	15.0V		28.0V		56.0V	
Over temperature protection	-25°C ~ +76°C		-25°C ~ +76°C		-25°C ~ +76°C	
Over temperature power on	58°C		58°C		58°C	
Output wave form	Fan on temperature 41°C (±3°C)		Fan on temperature 41°C (±3°C)		Fan on temperature 41°C (±3°C)	
Dimensions [W×H×D(mm)]	225×154×540	225×154×540	225×154×560	225×154×540	225×154×560	
Weight	10.0kg	10.0kg	13.0kg	10.0kg	13.0kg	

PRODUCT IN USE

Miniature vacuum cleaner, Small drill / Tool, Mini refrigerator, Acoustic device, Solar, Grinders(more than 1KW), ½ horsepower motor pumps(more than 1.5KW), A number of fluorescent lamps, TV/Monitor, Karaoke, Electric sign, Electric chargers, Counter, Warmer cabinet, Motor oxygen live fish, Mercerizing machine, Refrigerator, PC / Notebook, Other Electronic Products

FUNCTIONS

- Automatic overheat/overload input/output control
- Output short / over surge protection
- A low voltage by the program / for high-voltage operation function

2016

2015

2014

2013

2012

2011

2010

2009

2008

2007

2006

2005

2004

2003

2002

2001

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WARRANTY

- This product is compensated according to the Compensation Criteria for Consumers' Damages.
- This product is manufactured based on a strict quality control and inspection process.
Any trouble arising from the normal use be repaired free of charge during the warranty period in our A/S center, agencies or other service centers.
- **The warranty period is extended to two years in normal year.**
- In the following cases, even within the warranty period, the service fee may be charged:
 - any breakdown which occurs due to remodeling or mishandling failure;
 - any breakdown which occurs due to fire or flood damage;
 - when there is no warranty
- The retention period of repair parts for this product is five (5) years.

Product Name	Digital modified sine wave inverter	Warranty Period	2 Year	Dealer	Firm Name
Model Name					Address
Serial No					Cellular phone & phone
Date of purchase	Year Month Day				
Customer	Address				
	Name				
	Phone				

P&K PNKHTECH CO., LTD
www.pnkhitech.co.kr

Warranty repair center director
TEL : 82-32-830-7641~2