DARDA®

digitalized product

Pure sine wave digital power inverter

With advanced concept
and techology we serve the value

digital power inverter

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DARDA®

DK SERIES (1KW~2KW) KC EMC Class

PARAMETER		DK1210	DK1215	DK1220	DK2410	DK2415	DK2420	DK4810	DK4815	DK4820
DC input voltage		12V			24V			48V		
DC voltage standard		13.4V			26.8V			53.6V		
AC voltage standard		AC225V			AC225V			AC225V		
Output power continuous		1000W	1500W	2000W	1000W	1500W	2000W	1000W	1500W	2000W
Surge rating		2000W	3000W	4000W	2000W	3000W	4000W	2000W	3000W	4000W
Efficiency et rated power		91%			91%			91%		
THD [max]		360W 1.1%	1000W 1.1%		360W 1.1%	1000W 1.1%		360W 1.1%	1000W 1.1%	
No load current	no fan	0.9A	1.1A	1.39A	0.6A	0.74A	0.76A	0.32A	0.34A	0.4A
	on fan	1.3A	1.45A	1.84A	0.7A	0.82A	1.01A	0.41A	0.49A	0.6A
Low battery shut down		10.2V			20.0V			40.2V		
Low battery return on power		11.2V			22.4V			42.5V		
High battery shut down		17.2V			31.7V			61.0V		
High battery return on power		15.2V			30.0V			59.0V		
Frequency[50/60] selection		60HZ (50hz/60hz select switch)			60HZ (50hz/60hz select switch)			60HZ (50hz/60hz select switch)		
Regulation		1200W/222Vac	1900W/222Vac	2500W/222Vac	1200W/222Vac	1900W/222Vac	2500W/222Vac	1200W/222Vac	1900W/222Vac	2500W/222Vac
Over temperature protection		-25℃ ~ +74℃			-25℃ ~ +74℃			-25℃ ~ +74℃		
Over temperature power on		58℃			58℃			58℃		
Output wave form		Pure sine wave (D.S.P)			Pure sine wave (D.S.P)			Pure sine wave (D.S.P)		
Cooling fan [auto fan]		Fan on temperature 44℃ (±0.5℃)			Fan on temperature 44℃ (±0.5℃)			Fan on temperature 44℃ (±0.5℃)		
Insulation transformer		2KV ~ 2.5KV			2KV ~ 2.5KV			2KV ~ 2.5KV		
Over load protection	Input senser	-	-	100A	-	-	100A	-	-	100A
	Input fuse	40A(2EA) 30A(1EA)	40A(4EA)	40A(6EA)	30A(2EA)	40A(2EA)	40A(3EA) 30A(1EA)	30A(1EA)	40A(1EA)	30A(2EA)
	Output sensor	20A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)
	Output circuit breaker	6A(SS-001)	10A(SS-001)	10A(SS-001)	6A(SS-001)	10A(SS-001)	10A(SS-001)	6A(SS-001)	10A(SS-001)	10A(SS-001)
	AC outlet/terminal	2P Outlet 16A			2P Outlet 16A			2P Outlet 16A		
FCC (EMC)		FCC part 15 sub part B class A			FCC part 15 sub part B class A			FCC part 15 sub part B class A		
KC (EMC)		MSP-REM-pnk-DK1210	MSP-REM-pnk-DK1215	-	-	MSP-REM-pnk-DK2415	MSP-REM-pnk-DK2430	-	-	-
Dimensions [W×H×D(mm)]		195×89×290	195×89×365	225×89×440	195×89×290	195×89×365	225×89×440	195×89×290	195×89×365	225×89×440
Weight		3.4kg	4.4kg	5.5kg	3.4kg	4.4kg	5.5kg	3.4kg	4.4kg	5.5kg

PRODUCT IN USE

Precision test equipment, Precision medical equipment, Precise audio-video equipment, Electric rice cooker(inverter type), Electric pad(inverter type), Electric fan, Refrigerator(inverter type) Import refrigerator, Microwave oven, Charger(electric, communication transmit-receive, charge park), Electric three-phases inverter, Motor controller, LED bulb, Laser printers, Solar lamp, Mercury/Halogen/HQI lamp, Non-linear loads[motor, coil, etc], Other electrical or electronic equipment, and equipment while could experience malfunction due to similer step form waves

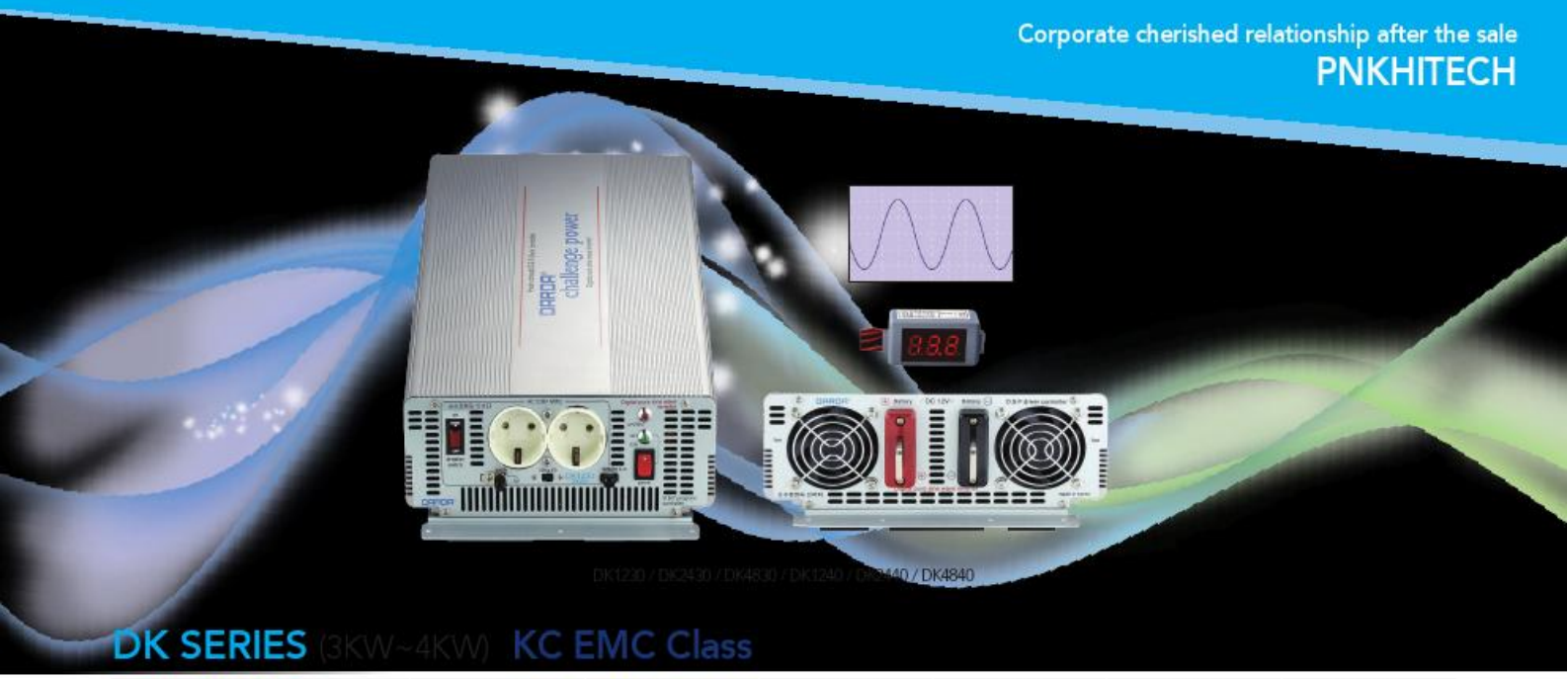
ON/OFF SURGE

When turned-on, by controlling surge time from DSP program for more than 1.5 seconds, we can realize stronger surge in absorbing power of motor, fridge & etc, and, when turned-off, as extinguishing time of lamp is around 2.5 seconds, the operation of turn-on switch will be stopped till complete lights-out, so all the equipments connected can be protected and remaining current in purse & circuit can be erased, by blocking sudden re-operation or repetitive on/off.

BLOCKING OVERLOAD

By sensing higher operation of load than equipment via self-diagnosis(DSP) program three times, if we could find excessed load capacity than given one, then it would be blocked automatically while less load capacity than given one would make it operate.

※ Specification of the product may change without notification for the improvement of performance.



DK SERIES (3KW~4KW) KC EMC Class

PARAMETER		DK1230	DK1240	DK2430	DK2440	DK4830	DK4840
DC input voltage		12V		24V		48V	
DC voltage standard		13.4V		26.8V		53.6V	
AC voltage standard		AC225V		AC225V		AC225V	
Output power continuous		3000W	4000W	3000W	4000W	3000W	4000W
Surge rating		6000W	8000W	6000W	8000W	6000W	8000W
Efficiency et rated power		91%		91%		91%	
THD [max]		1000W 1.1%		1000W 1.1%		1000W 1.1%	
No load current	no fan	1.3A	1.35A	0.79A	0.8A	0.44A	0.4A
	on fan	2.32A	2.10A	1.2A	1.24A	0.64A	0.77A
Low battery shut down		10.2V		20.0V		40.2V	
Low battery return on power		11.2V		22.4V		42.5V	
High battery shut down		17.2V		31.7V		61.0V	
High battery return on power		15.2V		30.0V		59.0V	
Frequency[50/60] selection		60HZ (50hz/60hz select switch)		60HZ (50hz/60hz select switch)		60HZ (50hz/60hz select switch)	
Regulation		3500W/222Vac	4500W/222Vac	3500W/222Vac	4500W/222Vac	3500W/222Vac	4500W/222Vac
Over temperature protection		-25℃ ~ +74℃		-25℃ ~ +74℃		-25℃ ~ +74℃	
Over temperature power on		58℃		58℃		58℃	
Output wave form		Pure sine wave (D.S.P)		Pure sine wave (D.S.P)		Pure sine wave (D.S.P)	
Cooling fan [auto fan]		Fan on temperature 44℃ (±0.5℃)		Fan on temperature 44℃ (±0.5℃)		Fan on temperature 44℃ (±0.5℃)	
Insulation transformer		2KV ~ 2.5KV		2KV ~ 2.5KV		2KV ~ 2.5KV	
Over load protection	Input senser	100A	100A	100A	100A	100A	100A
	Input fuse	40A(9EA)	40A(10EA)	40A(5EA)	40A(5EA)	40A(2EA)	40A(3EA)
	Output sensor	20A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)
	Output circuit breaker	16A(SS-001)	20A(SS-001)	16A(SS-001)	20A(SS-001)	16A(SS-001)	20A(SS-001)
	AC outlet/terminal	2P Outlet 16A		2P Outlet 16A		2P Outlet 16A	
FCC (EMC)		FCC part 15 sub part B class A		FCC part 15 sub part B class A		FCC part 15 sub part B class A	
KC (EMC)		MSP-REM-pnk-DK1230	-	MSP-REM-pnk-DK2430	-	-	-
Dimensions [W×H×D(mm)]		225×89×530	225×89×550	225×89×530	225×89×550	225×89×530	225×89×550
Weight		6.9kg	8.4kg	6.9kg	8.3kg	6.9kg	8.3kg

PRODUCT IN USE

인덕션전기렌지, Precision test equipment, Precision medical equipment, Precise audio-video equipment, 인버터에어컨(6평, 3KW이상), Electric rice cooker(inverter type), Electric pad(inverter type), Electric fan, Refrigerator(inverter type), Import refrigerator, Microwave oven, Charger(electric, communication transmit-receive, charge park), Electric three-phases inverter, Motor controller, LED bulb, Laser printers, Solar lamp, Mercury/Halogen/HQI lamp, Non-linear loads[motor, coil, etc], Other electrical or electronic equipment, and equipment while could experience malfunction due to similer step form waves

ON/OFF SURGE

When turned-on, by controlling surge time from DSP program for more than 1.5 seconds, we can realize stronger surge in absorbing power of motor, fridge & etc, and, when turned-off, as extinguishing time of lamp is around 2.5 seconds, the operation of turn-on switch will be stopped till complete lights-out, so all the equipments connected can be protected and remaining current in purse & circuit can be erased, by blocking sudden re-operation or repetitive on/off.

BLOCKING OVERLOAD

By sensing higher operation of load than equipment via self-diagnosis(DSP) program three times, if we could find excessed load capacity than given one, then it would be blocked automatically while less load capacity than given one would make it operate.

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DARDA®

DK1250 / DK2450 / DK4850
DK1260 / DK2460 / DK4860

DK1280 / DK2480 / DK4880
DK2410K / DK4810K

DK SERIES (5KW~10KW) KC EMC Class

PARAMETER		DK1250	DK1260	DK1280	DK2450	DK2460	DK2480	DK2410K	DK4850	DK4860	DK4880	DK4810K
DC input voltage		12V			24V				48V			
DC voltage standard		13.4V			26.8V				53.6V			
AC voltage standard		AC225V			AC225V				AC225V			
Output power continuous		5000W	6000W	8000W	5000W	6000W	8000W	10000W	5000W	6000W	8000W	10000W
Surge rating		10KW	12KW	16KW	10KW	12KW	16KW	20KW	10KW	12KW	16KW	20KW
Efficiency et rated power		91%			91%				91%			
THD [max]		2500W 1.1%		3500W 1.1%	2500W 1.1%		3500W 1.1%		2500W 1.1%		3500W 1.1%	
No load current	no fan	2.2A	2.4A	2.6A	1.1A	1.25A	1.25A	1.26A	0.62A	0.7A	0.75A	0.65A
	on fan	3.46A	4.28A	5.40A	1.7A	2.2A	2.81A	2.9A	1.12A	1.2A	1.36A	1.41A
Low battery shut down		10.2V			20.0V				40.2V			
Low battery return on power		11.2V			22.4V				42.5V			
High battery shut down		17.2V			31.7V				61.0V			
High battery return on power		15.2V			30.0V				59.0V			
Frequency[50/60] selection		60HZ (50hz/60hz select switch)			60HZ (50hz/60hz select switch)				60HZ (50hz/60hz select switch)			
Regulation		5500W/222Vac	6500W/222Vac	8500W/222Vac	5500W/222Vac	6500W/222Vac	8500W/222Vac	10000W/222Vac	5500W/222Vac	6500W/222Vac	8500W/222Vac	10000W/222Vac
Over temperature protection		-25℃ ~ +74℃			-25℃ ~ +74℃				-25℃ ~ +74℃			
Over temperature power on		58℃			58℃				58℃			
Output wave form		Pure sine wave (D.S.P)			Pure sine wave (D.S.P)				Pure sine wave (D.S.P)			
Cooling fan [auto fan]		Fan on temperature 44℃ (±0.5℃)			Fan on temperature 44℃ (±0.5℃)				Fan on temperature 44℃ (±0.5℃)			
Insulation transformer		2KV ~ 2.5KV			2KV ~ 2.5KV				2KV ~ 2.5KV			
Over load protection	Input senser	100A	100A	100A	100A	100A	100A	100A	100A	100A	100A	100A
	Input fuse	40A(14EA)	40A(16EA)	40A(20EA)	40A(4EA) 30A(4EA)	40A(8EA)	40A(10EA)	40A(12EA)	40A(2EA) 30A(2EA)	40A(4EA)	40A(6EA)	40A(8EA)
	Output sensor	20A(Sensor)	50A(Sensor)	50A(Sensor)	20A(Sensor)	50A(Sensor)	50A(Sensor)	50A(Sensor)	20A(Sensor)	50A(Sensor)	50A(Sensor)	50A(Sensor)
	Output circuit breaker	25AH(DCP-PR)	30AH(DCP-PR)	45AH(DCP-PR)	25AH(DCP-PR)	30AH(DCP-PR)	45AH(DCP-PR)	50AH(DCP-PR)	25AH(DCP-PR)	30AH(DCP-PR)	45AH(DCP-PR)	50AH(DCP-PR)
	AC outlet/terminal	17A(SS-001)	17A(SS-001)	16A*2(SS-001)	17A(SS-001)	17A(SS-001)	16A*2(SS-001)	16A*2(SS-001)	17A(SS-001)	17A(SS-001)	16A*2(SS-001)	16A*2(SS-001)
FCC (EMC)		2P Outlet 16A / 1P-20A(EU-US)			2P Outlet 16A / 1P-20A(EU-US)				2P Outlet 16A / 1P-20A(EU-US)			
KC (EMC)		3P-60A Terminal			3P-60A Terminal				3P-60A Terminal			
Dimensions [W×H×D(mm)]		FCC part 15 sub part B class A			FCC part 15 sub part B class A				FCC part 15 sub part B class A			
Weight		MSP-REM-pnk-DK1250	-	-	MSP-REM-pnk-DK2450	MSP-REM-pnk-DK2460	MSP-REM-pnk-DK2480	-	MSP-REM-pnk-DK4850	MSP-REM-pnk-DK4860	MSP-REM-pnk-DK4880	-
외관규격 [W×H×D(mm)]		225×154×498	225×154×580	225×154×650	225×154×498	225×154×580	225×154×650	225×154×750	225×154×498	225×154×580	225×154×650	225×154×750
제품무게		10.5kg	12.3kg	15.0kg	10.5kg	12.3kg	15.0kg	17.5kg	10.5kg	12.3kg	15.0kg	17.5kg

PRODUCT IN USE

인덕션전기렌지, Precision test equipment, Precision medical equipment, Precise audio-video equipment, 인버터에어컨(6평. 3KW이상), Electric rice cooker(inverter type), Electric pad(inverter type), Electric fan, Refrigerator(inverter type), Import refrigerator, Microwave oven, Charger(electric, communication transmit-receive, charge park), Electric three-phases inverter, Motor controller, LED bulb, Laser printers, Solar lamp, Mercury/Halogen/HQI lamp, Non-linear loads[motor, coil, etc], Other electrical or electronic equipment, and equipment while could experience malfunction due to similer step form waves

ON/OFF SURGE

When turned-on, by controlling surge time from DSP program for more than 1.5 seconds, we can realize stronger surge in absorbing power of motor, fridge & etc, and, when turned-off, as extinguishing time of lamp is around 2.5 seconds, the operation of turn-on switch will be stopped till complete lights-out, so all the equipments connected can be protected and remaining current in purse & circuit can be erased, by blocking sudden re-operation or repetitive on/off.

BLOCKING OVERLOAD

By sensing higher operation of load than equipment via self-diagnosis(DSP) program three times, if we could find excessed load capacity than given one, then it would be blocked automatically while less load capacity than given one would make it operate.

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1RACK TYPE DK1210TR / DK2410TR / DK4810TR

2RACK TYPE DK38010K230TR / DK38010K120TRU

RACK TYPE SYSTEM (INVERTER / TRANSFER / CITYPOWER) FCC EMC Class

PARAMETER	DK1210TR	DK2410TR	DK4810TR	DK38010K230TR	DK38010K120TRU
DC input voltage	12V	24V	48V	380V (275V ~ 405V)	380V (260V ~ 405V)
DC voltage standard	13.6V	26.4V	53.6V	380V	380V
AC voltage standard	225Vac (±3%)			234Vac (±3%)	120Vac (±2%)
Output power continuous	1000W (±3%)			10KW (±5%)	8KW (±5%)
Surge rating	2000W (±3%)			20KW (±10%)	16KW (±10%)
Dimensions [W×H×D(mm)]	480×44×353			420×88×483	420×88×483
Weight	5kg			15kg	15kg

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DP-20ATS / DP-30ATS / DP-50ATS

TRANSFER

Model	Output power	Output voltage/Frequency	Transfer input voltage	Dimensions	Temperature	Weight
DP-50ATS	50A / 11Kw	AC220V~240V/50 60Hz	Dc 12V / 24V (10V~30V) 0.03A(30mA) (DC48V 16mA)	14×76×280	+68℃ ±5℃ -20℃ ±5℃	3.9kg
DP-30ATS	30A / 6.6Kw			214×76×230		2.9kg
DP-20ATS	20A / 4.4Kw			214×76×230		2.7kg

AC charge over system	Current consumption (DC 12V/24V/48V)	Moment charge time
프로그램(소프트웨어)	12V/24V : 0.034A(34mA) carrentr : 0.034A(34mA) 48V : 0.016A(16mA)	16-26m/sec band time 16m/sec~26m/sec

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PDC-1210 / PDC-1230 / PDC-2408 / PDC-2420

PDC-12100 / PDC-2460 / PDC-4840

CHARGER

MODEL		PDC-1210	PDC-1230	PDC-2408	PDC-2420	PDC-12100	PDC-2460	PDC-4840
Input charac teristics	Voltage(V)	AC 220V				AC220V		
	Frequency(HZ)	60Hz & 50Hz				60hz		
	Rated capacity(W)	144	432	144	432	1440	1268	2304
Output charac teristics	Absorption charge voltage(V)	14.4 ± 0.2V	14.4 ± 0.2V	28.8 ± 0.3V	28.8 ± 0.3V	14.4 ± 0.2V	28.8 ± 0.3V	57.6 ± 0.4V
	Floating charge voltage(V)	13.2 ± 0.2V	13.2 ± 0.2V	26.4 ± 0.3V	26.4 ± 0.3V	13.2 + 0.2V	26.4 ± 0.3V	52.8 ± 0.4V
	Max. charging current(A)	10	30	8	20	100	60	40
	Efficiency(%)	90% 이상				90% 이상		
Dimensions	Size (W×H×D)	167×117×61	209×160×70	167×117×61	209×160×70	355×225×110	355×225×110	374×225×110
	Weight	1 kg	1.8 kg	1 kg	1.8 kg	4.6 kg	4.6 kg	4.6 kg
Electrical appliance safety certificate		HD07280-12001A	HD07273-12001C	HD07280-12003A	HD07273-12002C	HD07280-14005A	HD07280-14004A	

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DARDA®

KEY1001 / KEY1002 KEY1015 / KEY2015

KEY SERIES (600W~1.5KW) Normal Class

PARAMETER		KEY160	KEY180	KEY1001	KEY1015	KEY260	KEY280	KEY1002	KEY2015
DC input voltage		12V				24V			
DC voltage standard		13.4V				26.4V			
AC voltage standard		AC225V				AC225V			
Output power continuous		600W	800W	1000W	1500W	600W	800W	1000W	1500W
Surge rating		1200W	1500W	2000W	3000W	1200W	1500W	2000W	3000W
Efficiency et rated power		86%				89%			
THD [max]		360W 1.1%			1000W 1.1%	360W 1.1%			1000W 1.1%
No load current	no fan	0.62A	0.63A	0.66A	0.80A	0.38A	0.44A	0.41A	0.40A
	on fan	0.80A	0.82A	0.84A	1.15A	0.49A	0.55A	0.45A	0.66A
Low battery shut down		10.2V				20.0V			
Low battery return on power		11.2V				22.4V			
High battery shut down		17.2V				31.7V			
High battery return on power		15.2V				30.0V			
Frequency[50/60] selection		60HZ (50hz/60hz select switch)				60HZ (50hz/60hz select switch)			
Regulation		Max 5%이내				Max 5%이내			
Over temperature protection		-25℃ ~ +72℃ (75℃±5℃)				-25℃ ~ +72℃ (75℃±5℃)			
Over temperature power on		58℃				58℃			
Output wave form		Pure sine wave (D.S.P)				Pure sine wave (D.S.P)			
Cooling fan [auto fan]		Fan on temperature 43℃ (±0.5℃)				Fan on temperature 43℃ (±0.5℃)			
Insulation transformer		2KV ~ 2.5KV				2KV ~ 2.5KV			
Over load protection	Input senser	-	-	-	-	-	-	-	-
	Input fuse	30A(2EA)	40A(2EA)	40A(2EA) 30A(1EA)	40A(2EA)	30A(1EA)	40A(1EA)	30A(2EA)	40A(2EA)
	Output sensor	-	-	20A(Sensor)	20A(Sensor)	-	-	20A(Sensor)	20A(Sensor)
	Output circuit breaker	3.5A(Fuse)	4A(Fuse)	5A(Fuse)	10A(Fuse)	3A(Fuse)	4A(Fuse)	5A(Fuse)	10A(Fuse)
	AC outlet/terminal	1P Socket*2ea(15A)		2P Outlet 16A		1P Socket*2ea(15A)		2P Outlet 16A	
Dimensions [W×H×D(mm)]		165×71×224	165×71×250	202×71×290	195×89×365	165×71×224	165×71×250	202×71×290	195×89×365
Weight		1.5kg	1.7kg	2.9kg	4.4kg	1.5kg	1.7kg	2.9kg	4.4kg

PRODUCT IN USE

인덕션전기렌지, Precision test equipment, Precision medical equipment, Precise audio-video equipment, Electric rice cooker(inverter type), Electric pad(inverter type), Electric fan, Refrigerator(inverter type), Import refrigerator, Microwave oven, Charger(electric, communication transmit-receive, charge park), Electric three-phases inverter, Motor controller, LED bulb, Laser printers, Solar lamp, Mercury/Halogen/HQI lamp, Non-linear loads[motor, coil, etc], Other electrical or electronic equipment, and equipment while could experience malfunction due to similer step form waves

ON/OFF SURGE

When turned-on, by controlling surge time from DSP program for more than 1.5 seconds, we can realize stronger surge in absorbing power of motor, fridge & etc, and, when turned-off, as extinguishing time of lamp is around 2.5 seconds, the operation of turn-on switch will be stopped till complete lights-out, so all the equipments connected can be protected and remaining current in purse & circuit can be erased, by blocking sudden re-operation or repetitive on/off.

BLOCKING OVERLOAD

By sensing higher operation of load than equipment via self-diagnosis(DSP) program three times, if we could find excessed load capacity than given one, then it would be blocked automatically while less load capacity than given one would make it operate.

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KEY1020S / KEY1030S / KEY2020S / KEY2030S　KEYD1050 / KEYD1070 / KEYD2050 / KEYD2070　KEYD2090

KEY SERIES (2KW~9KW) Normal Class

PARAMETER		KEY1020S	KEY1030S	KEYD1050	KEYD1070	KEY2020S	KEY2030S	KEYD2050	KEYD2070	KEYD2090
DC input voltage		12V				24V				
DC voltage standard		13.4V				26.4V				
AC voltage standard		AC225V				AC225V				
Output power continuous		2000W	3000W	5000W	7000W	2000W	3000W	5500W	7000W	9000W
Surge rating		4000W	6000W	10KW	14000W	4000W	6000W	11KW	14KW	18000W
Efficiency et rated power		86%				89%				
THD [max]		1000W 1.1%		2500W 1.1%		1000W 1.1%		2500W 1.1%		3500W 1.1%
No load current	no fan	1.00A	1.00A	1.60A	1.80A	0.52A	0.79A	0.8A	1.0A	1.0A
	on fan	1.55A	1.67A	2.80A	3.64A	0.87A	0.85A	1.58A	2.28A	2.28A
Low battery shut down		10.2V				20.0V				
Low battery return on power		11.2V				22.4V				
High battery shut down		17.2V				31.7V				
High battery return on power		15.2V				30.0V				
Frequency[50/60] selection		60HZ (50hz/60hz select switch)				60HZ (50hz/60hz select switch)				
Regulation		Max 5%이내				Max 5%이내		5500W/222Vac	6500W/222Vac	8500W/222Vac
Over temperature protection		-25℃ ~ +72℃ (75℃±5℃)				-25℃ ~ +72℃ (75℃±5℃)		-25℃ ~ +74℃ (78℃±5℃)		
Over temperature power on		58℃				58℃				
Output wave form		Pure sine wave (D.S.P)				Pure sine wave (D.S.P)				
Cooling fan [auto fan]		Fan on temperature 43℃ (±0.5℃)		Fan on temperature 40℃ (±0.5℃)		Fan on temperature 43℃ (±0.5℃)		Fan on temperature 40℃ (±0.5℃)		
Insulation transformer		2KV ~ 2.5KV				2KV ~ 2.5KV				
Over load protection	Input senser	100A	100A	100A	100A	100A	100A	100A	100A	100A
	Input fuse	40A(6EA)	40A(9EA)	40A(16EA)	40A(18EA)	40A(3EA) 30A(1EA)	40A(5EA)	40A(6EA)	40A(8EA)	40A(10EA)
	Output sensor	20A(Sensor)	20A(Sensor)	20A(Sensor)	50A(Sensor)	20A(Sensor)	20A(Sensor)	20A(Sensor)	50A(Sensor)	50A(Sensor)
	Output circuit breaker	13AH(DCP-PSH)	18AH(DCP-PSH)	25AH(DCP-PR)	35AH(DCP-PR)	13AH(DCP-PSH)	18AH(DCP-PSH)	25AH(DCP-PR)	35AH(DCP-PR)	40AH(DCP-PR)
				17A(SS-001)	17A(SS-001)			17A(SS-001)	17A(SS-001)	16A*2ea(SS-001)
	AC outlet/terminal	2P Outlet 16A		2P Outlet 16A / 1P-20A(EU/US)		2P Outlet 16A		2P Outlet 16A / 1P-20A(EU/US)		
				3P-30A Terminal				3P-30A Terminal		3P(2C)50A Terminal
Dimensions [W×H×D(mm)]		225×89×420	225×89×488	225×154×480	225×154×540	225×89×420	225×89×488	225×154×480	225×154×540	225×154×620
Weight		5.5kg	5.6kg	11.3kg	14.5kg	5.5kg	5.6kg	11.3kg	14.5kg	16kg

PRODUCT IN USE

인덕션전기렌지, Precision test equipment, Precision medical equipment, Precise audio-video equipment, 인버터에어컨(6평, 3KW이상), Electric rice cooker(inverter type), Electric pad(inverter type), Electric fan, Refrigerator(inverter type), Import refrigerator, Microwave oven, Charger(electric, communication transmit-receive, charge park), Electric three-phases inverter, Motor controller, LED bulb, Laser printers, Solar lamp, Mercury/Halogen/HQI lamp, Non-linear loads[motor, coil, etc], Other electrical or electronic equipment, and equipment while could experience malfunction due to similer step form waves

ON/OFF SURGE

When turned-on, by controlling surge time from DSP program for more than 1.5 seconds, we can realize stronger surge in absorbing power of motor, fridge & etc, and, when turned-off, as extinguishing time of lamp is around 2.5 seconds, the operation of turn-on switch will be stopped till complete lights-out, so all the equipments connected can be protected and remaining current in purse & circuit can be erased, by blocking sudden re-operation or repetitive on/off.

BLOCKING OVERLOAD

By sensing higher operation of load than equipment via self-diagnosis(DSP) program three times, if we could find excessed load capacity than given one, then it would be blocked automatically while less load capacity than given one would make it operate.

※ Specification of the product may change without notification for the improvement of performance.

DARDA®

DK SERIES (1KW~2KW) FCC EMC Class

PARAMETER		DK1210U	DK1215U	DK1220U	DK2410U	DK2415U	DK2420U	DK4810U	DK4815U	DK4820U
DC input voltage		12V			24V			48V		
DC voltage standard		13.4V			26.8V			53.6V		
AC voltage standard		120Vac (±3%)			120Vac (±3%)			120Vac (±3%)		
Output power continuous		1000W (±3%)	1500W (±3%)	2000W (±3%)	1000W (±3%)	1500W (±3%)	2000W (±3%)	1000W (±3%)	1500W (±3%)	2000W (±3%)
Surge rating		2000W (±3%)	3000W (±3%)	4000W (±3%)	2000W (±3%)	3000W (±3%)	4000W (±3%)	2000W (±3%)	3000W (±3%)	4000W (±3%)
Efficiency et rated power		91% (±3%)			91% (±3%)			91% (±3%)		
No load current	no fan	0.45A	0.64A	0.70A	0.32A	0.40A	0.38A	0.22A	0.22A	0.25A
	on fan	0.57A	1.08A	1.05A	0.46A	0.65A	0.54A	0.33A	0.33A	0.36A
Low battery shut down		10.0V	10.0V	10.0V	20.0V	20.0V	20.0V	40.5V	40.5V	40.5V
Low battery return on power		11.2V	11.2V	11.2V	22.2V	22.2V	22.2V	43.0V	43.0V	43.0V
High battery shut down		17.0V	17.0V	17.0V	31.3V	31.3V	31.3V	61.4V	61.4V	61.4V
High battery return on power		14.5V	14.5V	14.5V	29.5V	29.5V	29.5V	59.0V	59.0V	59.0V
Frequency[50/60] selection		50hz/60hz selection (±0.8hz)			50hz/60hz selection (±0.8hz)			50hz/60hz selection (±0.8hz)		
Regulation		1200W/118Vac	1900W/118Vac	2500W/118Vac	1200W/118Vac	1900W/118Vac	2500W/118Vac	1200W/118Vac	1900W/118Vac	2500W/118Vac
Over temperature protection		-20℃ ~ +78℃ (80℃ ±5℃)			-20℃ ~ +78℃ (80℃ ±5℃)			-20℃ ~ +78℃ (80℃ ±5℃)		
Over temperature power on		58℃ (60℃ ±5℃)			58℃ (60℃ ±5℃)			58℃ (60℃ ±5℃)		
Output wave form		Pure sine wave (Digitalized signal process)			Pure sine wave (Digitalized signal process)			Pure sine wave (Digitalized signal process)		
Cooling fan [auto fan]		45℃ on (±3℃)			45℃ on (±3℃)			45℃ on (±3℃)		
Insulation transformer		2KV ~ 2.5KV (±0.5KV)			2KV ~ 2.5KV (±0.5KV)			2KV ~ 2.5KV (±0.5KV)		
Over load protection	Input senser	Included			Included			Included		
	Input fuse	40A (3EA)	40A (4EA)	40A (6EA)	30A (2EA)	40A (2EA)	40A (3EA)	30A	40A	30A (2EA)
	Output sensor	Included			Included			Included		
	Output circuit breaker	FUSE 10A	18A HS(High speed)	25A HS(High speed)	FUSE 10A	18A HS(High speed)	25A HS(High speed)	FUSE 10A	10A(SS-001)	25A HS(High speed)
	AC outlet/terminal	GFCI outlet (20A)		GFCI outlet (20A)/ terminal (30A-3P)	GFCI outlet (20A)		GFCI outlet (20A)/ terminal (30A-3P)	GFCI outlet (20A)		GFCI outlet (20A)/ terminal (30A-3P)
FCC (EMC)		FCC part 15 sub part B class A			FCC part 15 sub part B class A			FCC part 15 sub part B class A		
KC (EMC)		DK1210	DK1215	DK1220	-	DK2415	DK2420	-	-	-
Dimensions [W×H×D(mm)]		195×89×290	195×89×365	225×89×420	195×89×290	195×89×365	225×89×420	195×89×290	195×89×365	225×89×420
Weight		3.4kg	4.4kg	5.5kg	3.4kg	4.4kg	5.5kg	3.4kg	4.4kg	5.5kg

PRODUCT IN USE

인덕션전기렌지, Precision test equipment, Precision medical equipment, Precise audio-video equipment, Electric pad(inverter type), Electric fan, Refrigerator(inverter type), Import refrigerator, Microwave oven, Charger(electric, communication transmit-receive, charge park), Electric three-phases inverter, Motor controller, LED bulb, Laser printers, Solar lamp, Mercury/Halogen/HQI lamp, Non-linear loads[motor, coil, etc], Other electrical or electronic equipment, and equipment while could experience malfunction due to similer step form waves

ON/OFF SURGE

When turned-on, by controlling surge time from DSP program for more than 1.5 seconds, we can realize stronger surge in absorbing power of motor, fridge & etc, and, when turned-off, as extinguishing time of lamp is around 2.5 seconds, the operation of turn-on switch will be stopped till complete lights-out, so all the equipments connected can be protected and remaining current in purse & circuit can be erased, by blocking sudden re-operation or repetitive on/off.

BLOCKING OVERLOAD

By sensing higher operation of load than equipment via self-diagnosis(DSP) program three times, if we could find excessed load capacity than given one, then it would be blocked automatically while less load capacity than given one would make it operate.

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DK SERIES (3KW~5KW) FCC EMC Class

PARAMETER		DK1230U	DK1250U	DK2430U	DK2450U	DK4830U	DK4850U
DC input voltage		12V		24V		48V	
DC voltage standard		13.4V		26.8V		53.6V	
AC voltage standard		120Vac (±3%)		120Vac (±3%)		120Vac (±3%)	
Output power continuous		3000W (±3%)	5000W (±3%)	3000W (±3%)	5000W (±3%)	3000W (±3%)	5000W (±3%)
Surge rating		6000W (±3%)	10000W (±3%)	6000W (±3%)	10000W (±3%)	6000W (±3%)	10000W (±3%)
Efficiency et rated power		91% (±3%)		91% (±3%)		91% (±3%)	
No load current	no fan	0.90A	1.40A	0.42A	0.90A	0.32A	0.60A
	on fan	1.37A	2.70A	0.63A	1.47A	0.83A	1.25A
Low battery shut down		10.0V	10.2V	20.0V	20.0V	40.5V	40.2V
Low battery return on power		11.2V	11.2V	22.2V	22.4V	43.0V	42.5V
High battery shut down		17.0V	17.2V	31.3V	31.7V	61.4V	62.9V
High battery return on power		14.5V	15.2V	29.5V	29.5V	59.0V	58.8V
Frequency[50/60] selection		50hz/60hz selection (±0.8hz)		50hz/60hz selection (±0.8hz)		50hz/60hz selection (±0.8hz)	
Regulation		3500W/118Vac	5500W/118Vac	3500W/118Vac	5500W/118Vac	3500W/118Vac	5500W/118Vac
Over temperature protection		-20℃ ~ +78℃ (80℃ ±5℃)		-20℃ ~ +78℃ (80℃ ±5℃)		-20℃ ~ +78℃ (80℃ ±5℃)	
Over temperature power on		58℃ (60℃ ±5℃)		58℃ (60℃ ±5℃)		58℃ (60℃ ±5℃)	
Output wave form		Pure sine wave (Digitalized signal process)		Pure sine wave (Digitalized signal process)		Pure sine wave (Digitalized signal process)	
Cooling fan [auto fan]		45℃ on (±3℃)		45℃ on (±3℃)		45℃ on (±3℃)	
Insulation transformer		2KV ~ 2.5KV (±0.5KV)		2KV ~ 2.5KV (±0.5KV)		2KV ~ 2.5KV (±0.5KV)	
Over load protection	Input senser	Included		Included		Included	
	Input fuse	40A (8EA)	40A (14EA)	40A (4EA)	40A (8EA)	40A (2EA)	30A (6EA)
	Output sensor	Included		Included		Included	
	Output circuit breaker	34A HS (High speed)	60A HS (High speed)	34A HS (High speed)	60A HS (High speed)	34A HS (High speed)	60A HS (High speed)
	AC outlet/terminal	GFCI outlet (20A) terminal (30A-3P)	GFCI outlet (20AX2EA) terminal (60A-3P)	GFCI outlet (20A) terminal (30A-3P)	GFCI outlet (20AX2EA) terminal (60A-3P)	GFCI outlet (20A) terminal (30A-3P)	GFCI outlet (20AX2EA) terminal (60A-3P)
FCC (EMC)		FCC part 15 sub part B class A		FCC part 15 sub part B class A		FCC part 15 sub part B class A	
KC (EMC)		DK1230	-	DK2430	-	-	-
Dimensions [W×H×D(mm)]		225×89×520	225×154×520	225×89×520	225×154×520	225×89×520	225×154×520
Weight		7.3kg	12.3kg	7.3kg	12.3kg	7.3kg	12.3kg

PRODUCT IN USE

인덕션전기렌지, Precision test equipment, Precision medical equipment, Precise audio-video equipment, 인버터에어컨(6평, 3KW이상), Electric pad(inverter type), Electric fan, Refrigerator(inverter type), Import refrigerator, Microwave oven, Charger(electric, communication transmit-receive, charge park), Electric three-phases inverter, Motor controller, LED bulb, Laser printers, Solar lamp, Mercury/Halogen/HQI lamp, Non-linear loads[motor, coil, etc], Other electrical or electronic equipment, and equipment while could experience malfunction due to similer step form waves

ON/OFF SURGE

When turned-on, by controlling surge time from DSP program for more than 1.5 seconds, we can realize stronger surge in absorbing power of motor, fridge & etc, and, when turned-off, as extinguishing time of lamp is around 2.5 seconds, the operation of turn-on switch will be stopped till complete lights-out, so all the equipments connected can be protected and remaining current in purse & circuit can be erased, by blocking sudden re-operation or repetitive on/off.

BLOCKING OVERLOAD

By sensing higher operation of load than equipment via self-diagnosis(DSP) program three times, if we could find excessed load capacity than given one, then it would be blocked automatically while less load capacity than given one would make it operate.

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DARDA®

DK1260U / DK2460U / DK4860U

DK1280U / DK2480U / DK4880U

DK SERIES (6KW~8KW) FCC EMC Class

PARAMETER		DK1260U	DK1280U	DK2460U	DK2480U	DK4860U	DK4880U
DC input voltage		12V		24V		48V	
DC voltage standard		13.4V		26.8V		53.6V	
AC voltage standard		240Vac (±3%)	120Vac (±3%)	240Vac (±3%)	120Vac (±3%)	240Vac (±3%)	120Vac (±3%)
Output power continuous		6000W (±3%)	8000W (±3%)	6000W (±3%)	8000W (±3%)	6000W (±3%)	8000W (±3%)
Surge rating		12000W (±3%)	16000W (±3%)	12000W (±3%)	16000W (±3%)	12000W (±3%)	16000W (±3%)
Efficiency et rated power		91% (±3%)		91% (±3%)		91% (±3%)	
No load current	no fan	1.80A	2.48A	1.00A	1.30A	0.70A	0.65A
	on fan	3.64A	3.98A	2.28A	2.50A	1.22A	1.25A
Low battery shut down		10.2V	10.2V	20.0V	20.0V	40.2V	41.4V
Low battery return on power		11.2V	11.2V	22.4V	22.4V	42.5V	43.7V
High battery shut down		17.2V	17.2V	31.7V	31.7V	60.9V	62.7V
High battery return on power		15.2V	15.2V	30.0V	30.0V	58.8V	60.2V
Frequency[50/60] selection		50hz/60hz selection (±0.8hz)		50hz/60hz selection (±0.8hz)		50hz/60hz selection (±0.8hz)	
Regulation		6500W/240Vac	8500W/118Vac	6500W/240Vac	8500W/118Vac	6500W/240Vac	8500W/118Vac
Over temperature protection		-20℃ ~ +78℃ (80℃ ±5℃)		-20℃ ~ +78℃ (80℃ ±5℃)		-20℃ ~ +78℃ (80℃ ±5℃)	
Over temperature power on		58℃ (60℃ ±5℃)		58℃ (60℃ ±5℃)		58℃ (60℃ ±5℃)	
Output wave form		Pure sine wave (Digitalized signal process)		Pure sine wave (Digitalized signal process)		Pure sine wave (Digitalized signal process)	
Cooling fan [auto fan]		45℃ on (±3℃)		45℃ on (±3℃)		45℃ on (±3℃)	
Insulation transformer		2KV ~ 2.5KV (±0.5KV)		2KV ~ 2.5KV (±0.5KV)		2KV ~ 2.5KV (±0.5KV)	
Over load protection	Input senser	Included		Included		Included	
	Input fuse	40A (16EA)	40A (20EA)	40A (8EA)	40A (10EA)	40A (4EA)	40A (6EA)
	Output sensor	Included		Included		Included	
	Output circuit breaker	30A HS (High speed)	90A HS (High speed)	30A HS (High speed)	90A HS (High speed)	30A HS (High speed)	90A HS (High speed)
	AC outlet/terminal	Universal outlet (20A) terminal (60A-3P)	GFCI outlet (20AX2EA) terminal (60A-3P)	Universal outlet (20A) terminal (60A-3P)	GFCI outlet (20AX2EA) terminal (60A-3P)	Universal outlet (20A) terminal (60A-3P)	GFCI outlet (20AX2EA) terminal (60A-3P)
FCC (EMC)		FCC part 15 sub part B class A		FCC part 15 sub part B class A		FCC part 15 sub part B class A	
KC (EMC)		-	-	-	-	-	-
Dimensions [W×H×D(mm)]		225×154×580	225×154×650	225×154×580	225×154×650	225×154×580	225×154×650
Weight		14.8kg	16.8kg	14.8kg	16.8kg	14.8kg	16.8kg

PRODUCT IN USE

인덕션전기렌지, Precision test equipment, Precision medical equipment, Precise audio-video equipment, 인버터에어컨(6평, 3KW이상), Electric pad(inverter type), Electric fan, Refrigerator(inverter type), Import refrigerator, Microwave oven, Charger(electric, communication transmit-receive, charge park), Electric three-phases inverter, Motor controller, LED bulb, Laser printers, Solar lamp, Mercury/Halogen/HQI lamp, Non-linear loads[motor, coil, etc], Other electrical or electronic equipment, and equipment while could experience malfunction due to similer step form waves

ON/OFF SURGE

When turned-on, by controlling surge time from DSP program for more than 1.5 seconds, we can realize stronger surge in absorbing power of motor, fridge & etc, and, when turned-off, as extinguishing time of lamp is around 2.5 seconds, the operation of turn-on switch will be stopped till complete lights-out, so all the equipments connected can be protected and remaining current in purse & circuit can be erased, by blocking sudden re-operation or repetitive on/off.

BLOCKING OVERLOAD

By sensing higher operation of load than equipment via self-diagnosis(DSP) program three times, if we could find excessed load capacity than given one, then it would be blocked automatically while less load capacity than given one would make it operate.

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Registration of Broadcasting and Communication Equipments

DK1230

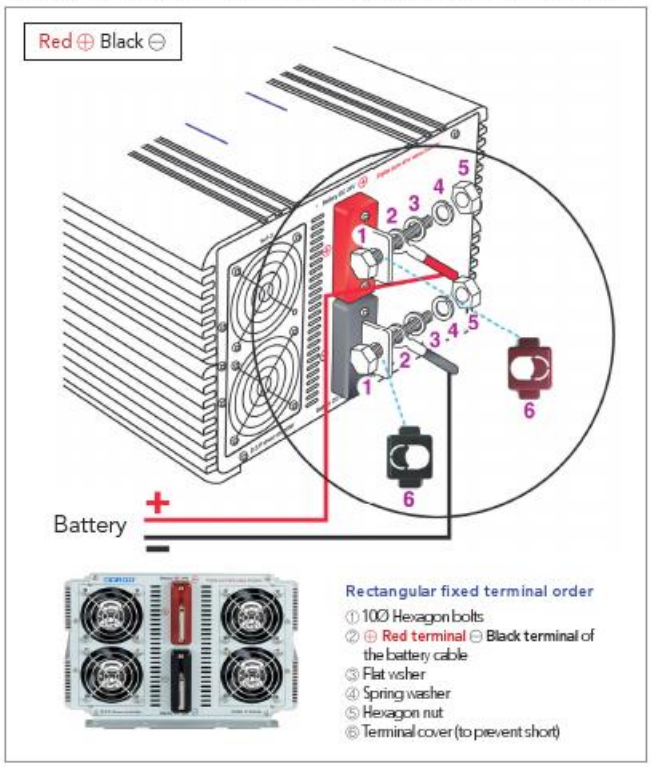
DK2460

DK4850

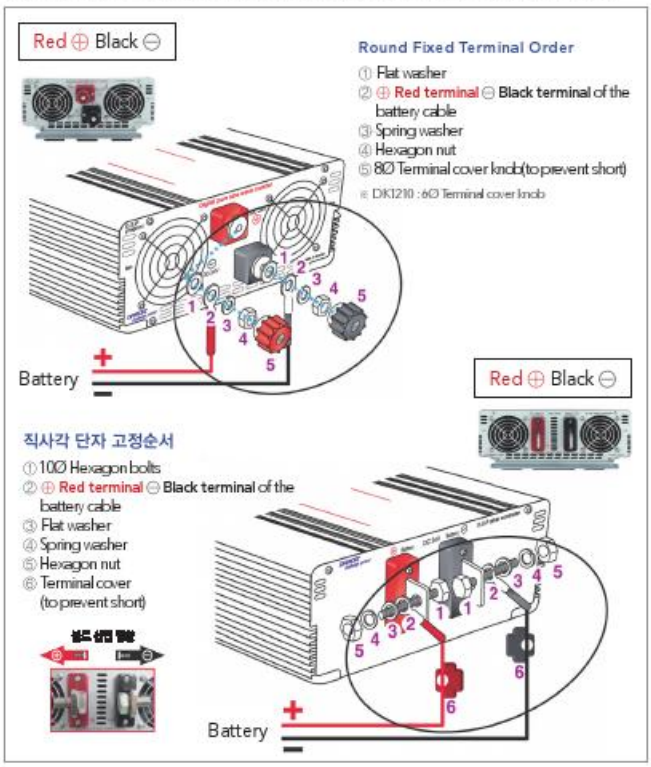
각 모델별 인증서는 본사 영업부 (032-830-7601~2)로 문의하시거나 홈페이지 (www.pnkhitech.co.kr)에서 확인할 수 있습니다.

Terminal fixing method of the inverter input cable order

Terminal fixing method of the inverter input cable order (more than 5KW)



Terminal fixing method of the inverter input cable order (less than 5KW)



- Please use to select the input wiring specifications that meet the criteria, depending on the installation location and position.
- Hexagon nuts with the terminal and perfectly fixed.
- Should be used to add a secondary battery in accordance with the output of the equipment used.

2016
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DARDA®

digitalized product

Pure sine wave digital power inverter

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 Pure sine wave inverter	Warranty Period	
Model Name			2 Year	
Serial No.				
Date of purchase		Year Month Day		
Customer	Address			
	Name			
	Phone			

Dealer	Firm Name	
	Address	
	Cellular phone & phone	

P&K PNKHITECH CO., LTD

www.pnkhitech.co.kr

Warranty repair center director

TEL : 82-32-830-7641~2