



Pure Sine Wave



▪ DKS SERIES (3KW) KC EMC Class (Solar MPPT digital system inverter)

PARAMETER				DKS300024	DKS300048
				3000W	
INVERTER	1	DC Input Voltage		24V	48V
	2	DC Input Voltage standard		26.8V(21.0~30.0V)	52.8V(41.0V~60.0V)
	3	Output voltage no load		223Vac (220V±3%)	
	4	Output power continuous		3000W (±5%)	
	5	Surge rating (Surge power)		6000W (±10%)	
	6	Efficiency at rated power		91% (±3%)	
	7	THD[max]		1000W 1.1%	
	8	No load current (fan off)		0.79A(±0.1A)	0.44A(±0.1A)
	9	No load current (fan on)		1.19A(±0.2A)	0.64A(±0.2A)
	10	Low battery shut down		20.1V(±0.5V)	40.2V(±1.0V)
	11	Low battery return on power		22.7V(±0.5V)	42.5V(±0.5V)
	12	High battery shut down		31.9V(±1.0V)	61.0V(±1.0V)
	13	High battery return on power		29.9V(±0.5V)	59.0V(±1.0V)
	14	Output Frequency		50hz/60hz (±0.5hz)	
	15	Requallation		3600W / 220Vac	
	16	Over temperature protection		-25℃ ~ 74℃ (78℃±5℃)	
	17	Over temperature power on		58℃ (60℃±5℃)	
	18	Output wave form		Pure sine wave (D.S.P)	
	19	Cooling fan(auto fan)		Fan on 40℃ (±5℃)	
	20	FCC EMC		FCC class	
	21	KC EMC		KC class	
	22	Products blocking noise control		OK (pass) auto circuit/Included	
	23	Input fuse		40A(5EA)	40A(2EA)
	24	Output Sensor		20A CT(Ts-7W)	
	25	Output circuit breaker		16A (SS-001)	
Solar MPPT Charger	Input	1	System(battery)voltage	24V	48V
		2	Maximum input Voltage (solar input)	75V(±3%)	150V(±3%)
		3	Normal input power	1728W(±15W)	1728W(±15W)
		4	no load loss	60mA	60mA
		5	Solar panel input over voltage protection	75V(±3%)	150V(±3%)
		6	Solar panel reverse Disconnection	○	○
	Charging	7	Maximum Charging current	60A(±3A)	30A(±3A)
		8	Charging System	Auto	
		9	Float Charging Voltage	26.4V(25℃)(±3%)	52.8V(25℃)(±3%)
		10	Equalization Charging Voltage	28.8V(25℃)(±3%)	57.6V(25℃)(±3%)
		11	LED lamp function	refer to the bottom speareately	
		12	Temperature compensation charging voltage	-4mv/cell/℃	
		13	Working temperature	-25℃ ~ 74℃ (78℃±5℃)	
		14	Battery	24V	48V
		14	Dimensions(mm)/Weight(kg)	287×85×550(11.3×3.35×21.6) / 11kg(24.25 lb)	

▪ LED lamp function

1. NO2 Inverter power ON LED green lamp
2. NO3 Inverter protect LED red lamp [low battery, over temp, surge protect, high battery, over load, output short protect]
3. NO4 Solar MPPT charge complete LED green lamp
4. NO5 Solar charge LED red lamp [lamp on-charging lamp bink-full charge lamp off-complete]
5. NO6 Solar input ON LED orange lamp

▪ Product features

SOLAR-MPPT (Maximum Power Point Tracking)-CHARGER

Product configuration: MPPT-charger extracts maximum power in solar cell module and charges optimized power even under rapidly changed power condition, and it has high battery charging efficiency owing to a function of automatic control for the battery charging condition as driving power outputs at maximum all the time.

In addition, it is a high performance system that maintains the system inverter performance, operates the connected equipment safely and extends the service life of a battery by detecting automatically through the software owing to floating charging function and equalizing charging function depending on the degree of charging.

Pure sine wave digital inverter system

As original technology integrated product, consisting of circuit patent technology, patent of mechanism composition part and copyright of circuit control function software, it is a standalone pure sine wave inverter with higher quality organizing KC (Korea), FCC (USA) and EMC circuit, and a digital system inverter with high output efficiency together easy usage only by connecting a solar module with the battery.

▪ SOLAR/MPPT-charger & battery

- The user's battery life is dependent on high quality solar module (SOLAR) and MPPT charging system.
- Low quality solar module (SOLAR) and MPPT charging system may cause damage to the battery in use.
- When an alarm of the battery voltage sounds, stop to use equipment(electric and electronic equipment), turn the inverter power off and check charging condition of a solar module and then use after recharging, which makes the service lifer of a battery extend for a long time.
- If you continue to use on the condition that the battery is discharged less than standard value, the battery charging is not achieved well and its life gets short rapidly.

Specifi cation of the product may change without notifi cation for the improvement of performance.