HELIS

HELIOS MKS Off-Grid Inverter



MODEL	HELIOS MKS 1K-12	HELIOS MKS 2K-24	HELIOS MKS 3K-24	HELIOS MKS 3KP-24	HELIOS MKS 4K	HELIOS MKS HELIOS MKS II 5K 5K		HELIOS MK
Rated Power	1000VA/ 1000W	2000VA/ 2000W	3000VA/ 3000W	3000VA/ 2400W	4000VA/ 4000W	5000VA/ 5000W	5000VA/ 5000W	5000VA/ 4000W
Parallel Capability	No	No	No	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units
NPUT								
Voltage	230 VAC							
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)							
Frequency Range	50 Hz/60 Hz (Auto sensing)							
OUTPUT								
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%							
Surge Power	2000VA	4000VA	600	0VA	8000VA			
Efficiency (Peak)	90% - 93%	93	3%	90%	93%	93%	90%	90%
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)							
Waveform	Pure sine wave							
BATTERY								
Battery Voltage	12 VDC (24VDC and 48VDC versions are also available)	24 VDC	24 VDC (48VDC version is also available)	24 VDC	48 VDC			24 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	27 VDC	27 VDC	54 VDC	54 VDC Max: 58VDC (optional 64VDC, please check with sales)	54 VDC	27 VDC
Overcharge Protection	15.5 VDC	31 VDC	31 VDC	30 VDC	60 VDC	60 VDC (optional 66VDC, please check with sales)	66 VDC	30 VDC
SOLAR CHARGER & A	C CHARGER							
Maximum PV Array Power	500 W	600W	600W	1000W	4000W		4500W	2000W
MPPT Range @ Operating Voltage	15 VDC ~ 80 VDC	30 VDC~ 66 VDC	30 VDC~ 66 VDC	30 VDC~ 80 VDC	60 VDC~ 115 VDC		120 VDC~ 430 VDC	30 VDC~ 115 VDC
Maximum PV Array Open Circuit Voltage	102 VDC	75VDC	75VDC	100VDC	145 VDC		450 VDC	145 VDC
Maximum Solar Charge Current	40A	25A	25A	40A	80 A		80 A	80A
Maximum AC Charge Current	20A	30A	30A	60A	60 A		80 A	60A
Maximum Charge Current	60A	55A	55A	100A	140	A	80 A	140A
PHYSICAL								
Dimension,DxWxH (mm)	95 x 240 x 316	5 100 x 272 x 355		100 x 272 x 385	120 x 295 x 468			180 x 310 x 475
Net Weight (kgs)	5.2	7.0	7.4	7.5	12.5	13.5	11	12.5
ENVIRONMENT								
Humidity	5% to 95% Relative Humidity (Non-condensing)							
Operating Temperature	0°C to 55°C							
Storage Temperature	-15°C to 60°C							

**Product specifications are subject to change without further notice

MKS Off-Grid Inverter

Pure sine wave inverter

Output power factor 1 (Only 0.8 for 3KP/4KP models

Built-in MPPT solar charge controller

Selectable charging current based on applications

Configurable AC/ Solar input priority via LCD setting

Compatible to AC mains or generator power

Battery equalization for optimized battery performance and lifecycle

Parallel operation with up to 9 units only available for :

MKS 3KP MKS 4KVA MKS 5KVA MKS 5KP

