

VIRGO Hybrid

Virgo 3K-S/4K6-S/6K-S

HEIWIT

- Power options of 3 kW – 4.6 kW – 6 kW
- Integrated UPS Backup function
- Up to 9 kWp of panel power
- 2 MPPT 100–550 V
- 97.6% efficiency
- 10-year Italian warranty

VERSATILITY

With 5 operating modes, the Virgo inverter can meet all the needs of any home and its energy consumption habits.

The monitoring data is analyzed and stored on Italian servers.

UPS BACK-UP

Equipped with UPS functionality for a seamless transition between grid-tied and off-grid modes in less than 10 ms. The backup output power is 5 kWp, capable of handling even the most demanding loads.

PRODUCT SPECIFICATION

	Model	Virgo 3K-S	Virgo4K6-S	Virgo 6K-S
PV Terminal Parameters	Max. Input Power [W]	8000	9000	9000
	Max. PV Voltage [Vd.c.]		600	
	MPPT Voltage Range [Vd.c.]		100-550	
	Rated Voltage [Vd.c.]		360	
	Max. Input Current [Ad.e.]		16	
	Isc PV [Ad.e.]		20	
	Number al MPPTs		2	
	Number of Input Strings Per MPPT		1	
Battery Input/Output Parameters	Battery Type		Sodium-ion	
	Battery Rated Voltage [Vd.c.]		48	
	Battery Voltage Range [Vd.c.]		32-60	
	Max. Charging/Discharging Power [W]		5000	
	Max. Charging/Discharging Current [Ad.e.]		100	
	Battery Charging Wake-up		Supported	
	Battery Communication Wake-up		Supported	
AC Input Terminal Parameters	Charging Method		Constant Current, Constant Voltage, Floating	
	Max. Input Power [W]	7360	9200	10000
	Max. Continuous Input Current [Aa.c.]	32	40	43.5
	Max.Continuous Input Power(Grid to Battery) [W]	3000	4600	6000
	Max.Continuous Input Current(Grid to Battery) [Aa.c.]	16	20	26.1
	Rated Input Voltage/Frequency [Va.c./Hz]		230(L/N/PE); 50/60	
AC Output Terminal Parameters	Input Voltage Range [Va.e.]		170-280	
	Rated Output Active Power [W]	3000	4600	6000
	Rated Output Current [Aa.c.]	16	20	26.1
	Rated Output Voltage/Frequency [Va.c./Hz]		230(L/N/PE); 50/60	
	Output Voltage Range [Va.e.]		180-270	
	Power Factor Range		0.8Lead ing-0 .8Lagg ing	
Back Up Load Rating	THDi		(3%)	
	Rated Output Power [W]	3000	4600	5000
	Rated Output Current [Aa.c.]	16	20	21.7
	Rated Output Voltage/Frequency [Va.c./Hz]		230(L/N/PE); 50/60	
	Output Voltage Range [Va.e.]		180-270	
	THDu (@Linear Load)		<3%	
Efficiency	Conversion Time [ms]		10	
	Max. Efficiency		97.6%	
	European Efficiency		97.3%	
	Max. Efficiency On Battery Side and AC Side		94.7%	
	MPPT Efficiency		99.9%	
General Parameters	Ingress Protection Rating		IP66	
	Operation Temperature Range [°C]		-25-60(Derating Above 40)	
	Max. Operation Altitude [m]		4000(Derating Above 2000)	
	Relative Humidity Range		0-95%RH(Non-condensing)	
	Protection Class		Class I	
	Stand by Power		<10W	
	Installation Method		Wall Mounting	
	Parallel Connection		Supported , Max. 3 Units	
	Communication Interface		RS485, CAN(Battery); RS485; WiFi+Bluetooth, LAN (optional accessory)	
	Display		LCD; APP	
	Isolation Method		High-frequency Isolation	
	Cooling Method		Natural Cooling	
	Noise Level		<25dB	
	Dimension [Width*Height*Depth][mm]		510*450*186	
	Packing Dimension [Width*Height*Depth][mm]		610*570*300	
	Net Weight [kg]		22.6	
	Gross Weight [kg]		27.2	
	Warranty Period		10 Years	
Certifications	Production Compliance		IEC62109-1 :2010; IEC62109-2:2010	
	CE-EMC		EN/IEC 61000-6-1 :2019; EN/IEC 61000-6-3:2021; EN 62920:2017/A1 :2021	
	Grid Certifications		CEI 0-21 :2022; VDE-AR-N 4105,VDE 0124-100:2020; G99 1-9:2022,typeA, G100-1/2:2022; EN 50549-1 :2019; C10/11 :2021; IEC 61727:2024, IEC 62116:2014, IEC 61683:1999	

Note: The technical parameters are for reference only. Actual parameters are subject to the shipped product.