

Models	SIRIO K100 HV-MT
Rated power alternating current	100KVA
Maximum power alternating current	100KW (cosφ=1)
INPUT	
Maximum direct voltage in an open circuit	880Vcc
MPPT Full Rating Range	450÷760Vcc
Working range	450÷760Vcc
Maximum input current	236Acc
Initial feeding voltage	540Vcc
Ripple voltage	<1%
Input number	1
MPPT number	1
D.C. connectors	Bus bar
OUTPUT	
Operating voltage	270Vca
Operating interval	245÷300Vca
Maximum power interval	245÷300Vca
Frequency interval	47,5÷51,5Hz
Settable frequency interval	47÷53Hz
Nominal current	214Aca
Maximum current	238Aca
Current Harmonic Distorsion (THDi)	<3%
Power factor	from 0,9 ind. to 0,9 cap.
Galvanic separation	No
A.C. connectors	Bus bar
SYSTEM	
Maximum efficiency	98,1%
European efficiency	97,5%
Stand-by consumption	<32W
Night consumption	<32W
Internal protection	MCCB AC side and Switch DC side
Insulation operating protection	Yes
Detecting earth leakage	Yes
Heat dissipation	Controlled fans
Operating temperature	-20°C÷45°C (without derating)
Storage temperature	-20°C÷70°C
Humidity	5÷95% non-condensing
CHARACTERISTICS	
Acoustic noise	<68dBA
Protection level	IP20
Colour	RAL 7035
Weight	420Kg
Dimensions	800x800x1900mm
COMMUNICATION	
Communication interface	Ethernet, USB, 2xRS232, 2 ingressi per comandi remoti (blocco inverter ed EPO) e 3 relè di segnalazione stato di funzionamento. RS485 opzionale (slot version)
Display	Color LCD touch screen

Protocols	ModBUS and ModBUSTCP
CERTIFICATES AND APPROVALS	
EMC	EN61000-6-4, EN61000-6-2, EN61000-3-11, EN61000-3-12
Safety	EN62109-1, EN62109-2
Directives	Low Voltage Directive: 2006/95/EC, EMC Directive: 2004/108/EC
Guide for connection to the power grid	CEI 0-16, A70, PO12.3