

Models

SIRIO K100 HV

Rated power alternating current	100 KVA
Maximum power alternating current	100 KW (cosφ=1)
INPUT	
Maximum direct voltage in an open circuit	110 Vcc
MPPT Full Rating Range	40 ÷ 76 Vcc
Working range	40 ÷ 76 Vcc
Maximum input current	236 Acc
Initial feeding voltage	04 Vcc
Ripple voltage	<1%
Input number	1
MPPT number	1
D.C. connectors	Bus bar
OUTPUT	
Operating voltage	40 Vca
Operating interval	34 ÷ 46 Vca
Maximum power interval	34 ÷ 46 Vca
Frequency interval	47,0 ÷ 01,0 Hz
Settable frequency interval	47 ÷ 03 Hz
Nominal current	140 Aca
Maximum current	160 Aca
Fault level contribution	274 Aca
Current Harmonic Distorsion (THDi)	<3%
Power factor	from 0,9 ind. to 0,9 cap.
Galvanic separation	LF trafo
A.C. connectors	Bus bar
SYSTEM	
Maximum efficiency	97,1%
European efficiency	90,1%
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 ÷ 40°C (without derating)
Storage temperature	-20°C ÷ 70°C
Humidity	0 ÷ 90% non-condensing
CHARACTERISTICS	
Acoustic noise	<71 dBA
Protection level	IP20
Colour	RAL 7030

Weight	۷۲·Kg
Dimensions	۸۰۰x۸۰۰x۱۹۰۰mm
COMMUNICATION	
Communication interface	Ethernet, USB, ۲xRS۲۳۲, ۲ ingressi per comandi remoti (blocco inverter ed EPO) e ۳ relè di segnalazione stato di funzionamento. RS۴۸۵ opzionale (slot version)
Display	Color LCD touch screen
Protocols	ModBUS and ModBUSTCP
CERTIFICATES AND APPROVALS	
EMC	EN۶۱۰۰۰-۶-۳, EN۶۱۰۰۰-۶-۲, EN۶۱۰۰۰-۳-۱۱, EN۶۱۰۰۰-۳-۱۲
Safety	EN۶۲۱۰۹-۱, EN۶۲۱۰۹-۲
Directives	Low Voltage Directive: ۲۰۰۶/۹۵/EC, EMC Directive: ۲۰۰۴/۱۰۸/EC
Guide for connection to the power grid	CEI ۰-۲۱, CEI ۰-۱۶, AV۰, VDE ۰۱۲۶-۱-۱, G۵۹/۲, Real Decreto ۴۱۳/۲۰۱۴, PO۱۲,۳