

MODEL**SIRIO K80 HV**

INPUT	
Maximum PV power (Pmax) [kWp]	100
Minimum recommended PV power (Pmin) [kWp]	70
Recommended Vo@STC voltage (Vo) [V]	710 – 760
DC voltage range, MPPT (Vcc) [V]	450 – 760
Maximum DC voltage (Vcc, max) [V]	880
Start-up voltage (Vstart-up) [V]	540
Max DC current (Icc, max) [A]	196
Voltage ripple on modules [%]	<1
DC inputs	1
OUTPUT	
Rated AC power (p.f. =1) (Pca) [kW]	80
Maximum AC power (Pca 1h) [kW]	88
Rated voltage (Vca) [V]	400 three-phase (+ / -15%)
Rated current (Ica) [Aca]	115
Max current (Ica) [Aca]	146
Rated frequency (Fca) [Hz]	50 (+2 / -3)
Distribution system	TT, TN-S, TN-C
Harmonic distortion of the network current (THDi) [%]	<3 with rated power
Nominal Power factor (cos φ) [%]	>0.99 (adjustable ± 0.9)
Contribution to short circuit current (Icc) [A]	219
STANDARDS	
Electromagnetic compatibility	SI
CE conformity	SI
PROTECTION DEVICES AND ENVIRONMENTAL CONDITIONS	
IP protection degree EN60529	IP20
Environmental categories	Indoor, unconditioned
Overvoltage category (EN62109)	II (DC) – III (AC)
Pollution degree	3
Permitted temperature range (T) [°C]	-10 ÷ 50
Non condensing relative humidity range [%]	5 ÷ 95
Maximum height above sea level [m]	1000
Air change (with deltaT=5 °C) [m3/h]	2400
Direction of air flow	Intake through the base and the front. Extraction from the rear
Max power dissipated (in overload) (P loss) [W – KCal/h]	3821 – 3266
MECHANICAL	
Weight [Kg]	650
Dimensions (LxPxX) [mm]	800x800x1900