

MODEL	SIRIO K500 HV-MT
Rated power [kW]	500
INPUT	
Maximum PV power (Pmax) [kWp]	570
Minimum recommended PV power (Pmin) [kWp]	400
Recommended Vo@STC voltage (Vo) [V]	710 – 760
DC voltage range, MPPT (Vcc) [V]	450 – 760
Maximum DC voltage (Vcc, max) [V]	1000
Start-up voltage (Vstart-up) [V]	540
Max DC current (Icc, max) [A]	1180
Voltage ripple on modules [%]	<1
DC inputs	8 x 140 A (OPT)
OUTPUT	
Rated AC power (p.f. =1) (Pca) [kW]	500
Rated voltage (Vca) [V]	270 three-phase (+/-15%)
Rated current (Ica) [Aca]	1070
Max current (Ica) [Aca]	1260
Rated frequency (Fca) [Hz]	50 (+2 / -3)
Distribution system	IT
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]	1890
STANDARDS	
Electromagnetic compatibility	YES
CE conformity	YES
PROTECTION DEVICES AND ENVIRONMENTAL CONDITIONS	
IP protection degree EN60529	IP20
Environmental categories	Indoor, unconditioned
Overvoltage category (EN62109)	III (DC) – III (AC)
Pollution degree	3
Permitted temperature range (T) [°C]	-20 ÷ 50
Maximum height above sea level [m]	1000
Air change (with deltaT=5 °C) [m3/h]	9500
Direction of air flow	Intake through the base and the front. Extraction from the top
Max power dissipated (in overload) (P loss) [W – KCal/h]	12820 – 10954
MECHANICAL	
Weight [Kg]	1320
Dimensions (LxPxX) [mm]	1500x1000x1900