

CHS-2 29.9kW

MODEL	CHS2-29.9K-T4-X
DC Input	
Max. PV Array Power [Wp]@STC	59800
Max. DC Voltage [V]	1000
MPPT Voltage Range [V]	180 ~ 850
Rated DC Voltage [V]	600
Start Voltage [V]	200
Max.DC Input Current [A]	4*45
Max.DC Short Circuit Current [A]	4*56.5
Number of Strings per MPPT	2
Battery Parameters	
Battery Type	LiFePO4
Rated Energy [kWh]	100.3
Max.Charging/Discharging Current [A]	140
AC Output [On-grid]	
Rated AC Power [W]	29900
Max.Apparent Power[VA]	29900
Rated Output Current[A]@230V	43.3
Max. Output Current [A]@230V	43.3
Rated AC Voltage [V]	3+N+PE/ 3+PE, 380/ 400
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65
Power Factor [cos ϕ]	0i - 1 - 0c
Total Harmonic Distortion [THDi]	<3%
AC input [On-grid]	
Rated AC Voltage/Range [V]	3+N+PE/ 3+PE, 380/ 400
Rated Output Frequency [Hz]	50,6
Max. Input Current [A]	150
AC Output [Back-up]	
Max.Output Power [VA]	29900
Peak Output Apparent Power [VA]	29900
Rated AC Voltage [V]	3+N+PE/ 3+PE,380/ 400
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65
Output THDv (@ Liner Load)	<3%
AC Input [Generator]	
Max. Input Power [W]	29900
Max. Input Current [A]@230V	43.3
Rated Input Voltage [V]	3+N+PE/ 3+PE,380/ 400
Rated Input Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65
Efficiency	
Max. Efficiency	98%
Euro Efficiency	97.3%
Max. Battery to AC Efficiency	96.0%

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Protection	
PV Reverse Polarity Protection	Integrated
Anti-islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Overvoltage Protection	Integrated
DC switch	Integrated
DC Surge Protection	II
AC Surge Protection	II
AFCI	Integrated
RSD	Optional
General Parameters	
Communication	Wi-Fi/Ethernet/CAN/RS485
Topology	Transformerless
Operating Temperature Range	-30°C to +50°C (45°C to 50°C with derating)
Cooling Method	Air Conditioner
Ambient Humidity	5~95%(No Condensing)
Altitude [m]	2000
Ingress Protection	IP55, IP66(Inverter)
Dimensions [H*W*D] [mm]	1980*988*1065
Weight [kg]	1050(57.3kWh)/1150(71.6kWh)/1250(85.9kWh)/1350(100.3kWh)
Warranty [Year]	10-May
Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 021, EN50549-1, G98, G99, C10-11, UNE217002,
	NBR16149/NBR16150, IEC62109-1/-2, NBT32004-2018, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4