

Solar Water Pump Controller



CM-SPC33 45-110KW



Up to 99.8% MPPT
Efficiency



Multi Pump Protection



AM PMSM Single Phase,
Multi Types of Pumps



Automatic Hybrid
Compensation



Automatic Start & Stop



Zero Programming



CM-SPC33

45-110KW

MODEL NAME	CM-SPC 33-45KW	CM-SPC 33-55KW	CM-SPC 33-75KW	CM-SPC 33-93KW	CM-SPC 33-110KW
DC Input					
Max. Input Voltage [V]	900				
Start Voltage [V]	350				
Min. Input Voltage [V]	220				
MPPT Voltage Range [V]	500~750				
Recommended Input Working Voltage [V]	560				
Recommended PV Array Power [kW]	54~72	66~88	90~120	112~149	132~176
AC Input					
Input Voltage [V]	3PH 380-480				
Input Frequency [Hz]	50/60				
AC Output					
Output Power [kW]	45	55	75	93	110
Rated Current [A]	91	112	150	176	210
Output Voltage [V]	3PH 0-380/480				
Output Frequency [Hz]	0-50/60				
Control Performance					
Control Mode	V/F, SVC				
Overload Capability	150% of rated current:60 seconds;180% of rated current:1 seconds				
Protection					
Undervoltage Protection	Integrated				
Overvoltage Protection	Integrated				
Overload Protection	Integrated				
Short-circuit Protection	Integrated				
Overheat Protection	Integrated				
Lack of Water Protection	Integrated				
Surge Protection	Integrated				
General Data					
MPPT Efficiency	99.8%				
Ingress Protection Degree	IP20				
Cooling Mode	Air cooling				
Communication Interface	RS485 communication interface				
Ambient Operating Temperature	-20°C ~ 60°C (>45°C, rated power will be derated for 1% by every additional 1°C)				
Operation Altitude	Below 2000 meters, there is no need to derate, 2000-3000 meters, each increase of 100 meters, derate 1%				
Physical Dimension [H*W*D] [mm]	543*310*280			580*358*328	
Weight [kg]	22.3	22.7	38.93	39.45	40.07
Standard Warranty [Month]	18				

Notes: Inductor is suggested to be added to the solar pumping system if the distance between solar pump controller and water pump is over 50m