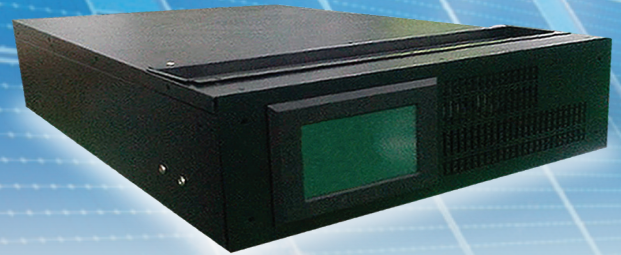


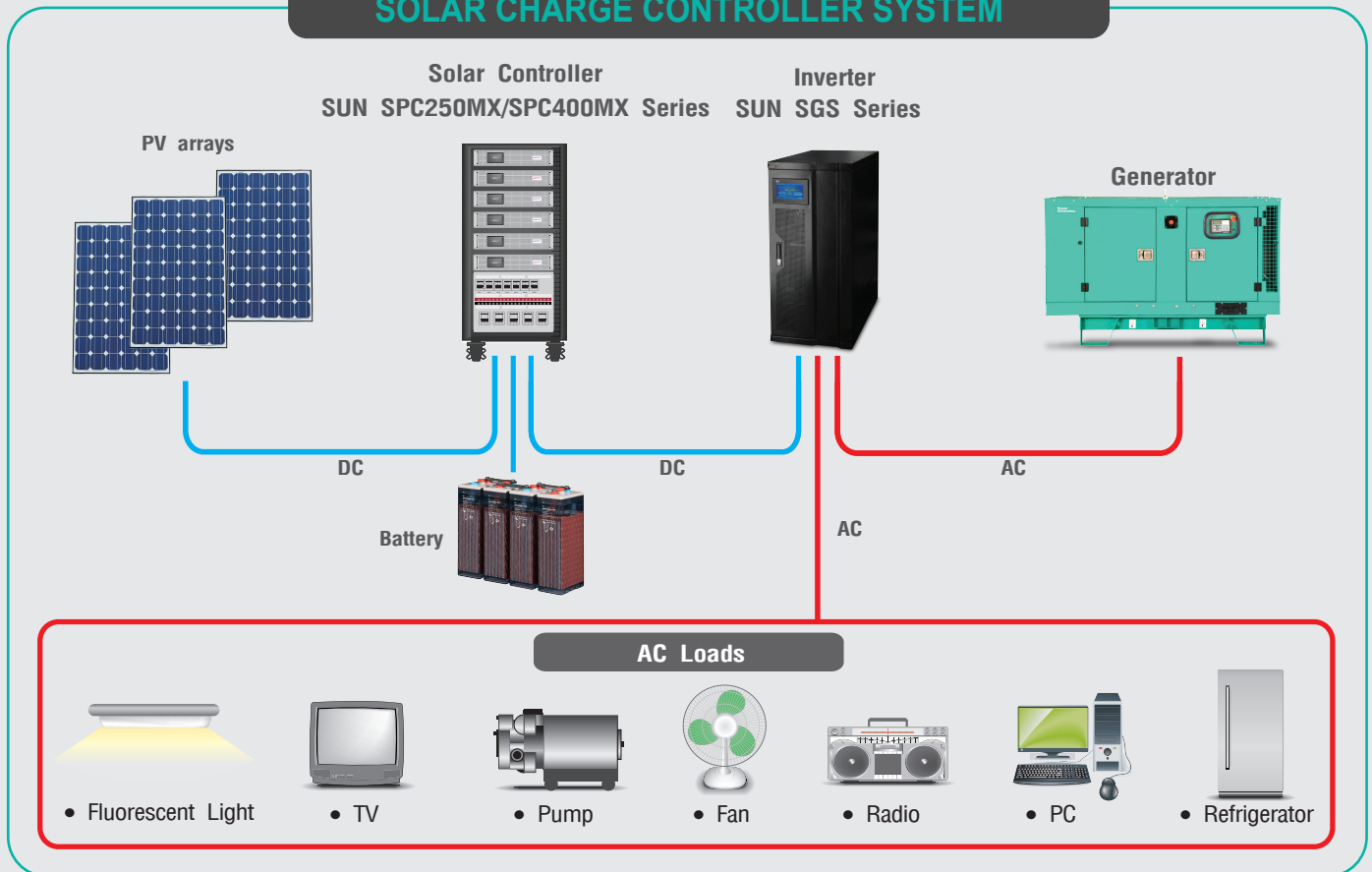
SOLAR CONTROLLER with MPPT SUN SPC250MX/SPC400MX Series



Features:

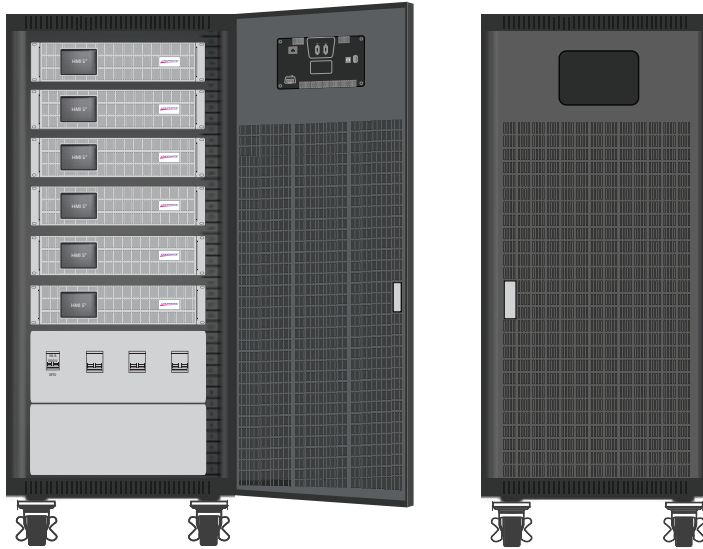
- Advanced microprocessor control
- Multiple solar arrays input control 4 Channels
- Built-in Maximum Power Point Tracking (MPPT)
- 3 Step to provide charging battery (bulk, boost, float)
- Adopting sectional sequential current limiting charging mode, automatically control PV array to connect or disconnect
- Adopting MOSFET with low loss and long life as the main switching component of controller
- Battery over/under voltage alarm, output over current, Lightning, surge, TVS protection
- Reverse polarities protection for PV and battery
- Accurate measurement of PV power generation amount display
- Parameter setting of the system function
- With the battery over/low voltage dry contact, diesel machine state up, control fault dry contact function
- HMI LCD Display 5inch for module/7 inch for System
- Communication interface RS485/MODBUS/Monitoring software(option)
- With historic records and password protection function
- Expandable temperature sensor, temperature compensation control(option)
- Solar controller configuration PV, Battery and loading with breaker(option)
- Diesel machine starting dry contact function(option)
- C-tick compliance for EMC
- ISO 9001 and ISO 14001 certified factory

SOLAR CHARGE CONTROLLER SYSTEM

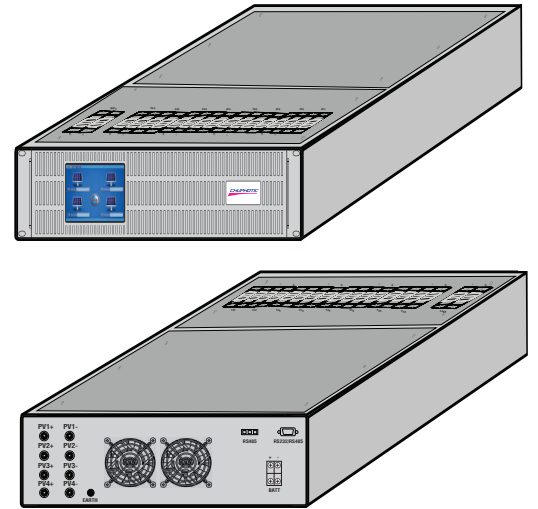


SOLAR CONTROLLER with MPPT : SUN SPC 250MX

SPC250MX

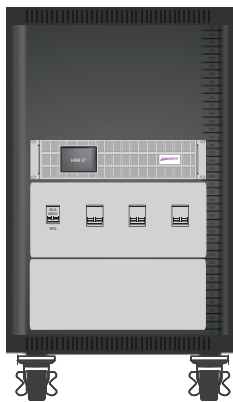


SPC250-64 20kW Module Unit



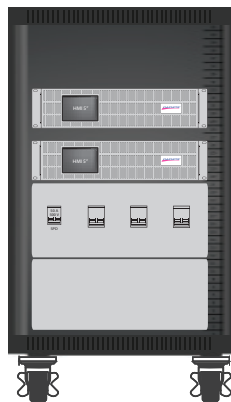
SPC250 M1 20kW

- SPC250-64 x 1 pcs



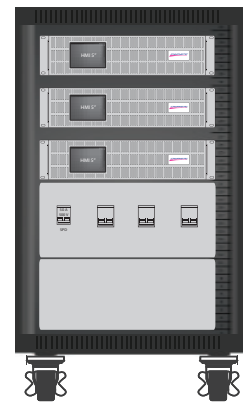
SPC250 M2 40kW

- SPC250-64 x 2 pcs



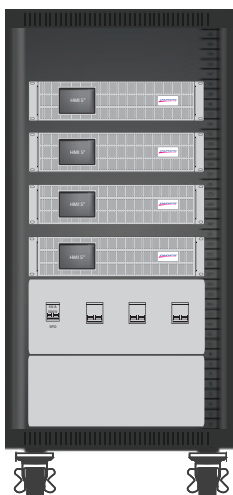
SPC250 M3 60kW

- SPC250-64 x 3 pcs



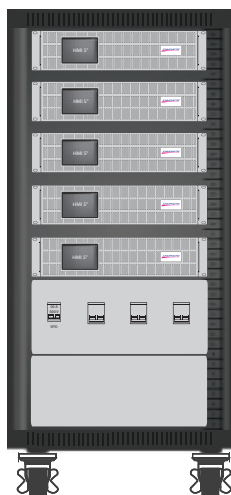
SPC250 M4 80kW

- SPC250-64 x 4 pcs



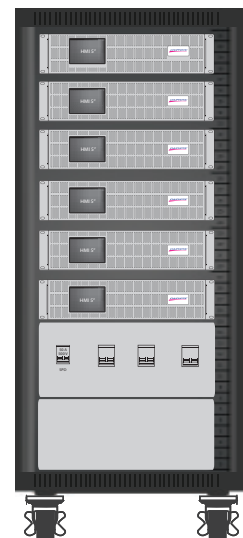
SPC250 M5 100kW

- SPC250-64 x 5 pcs



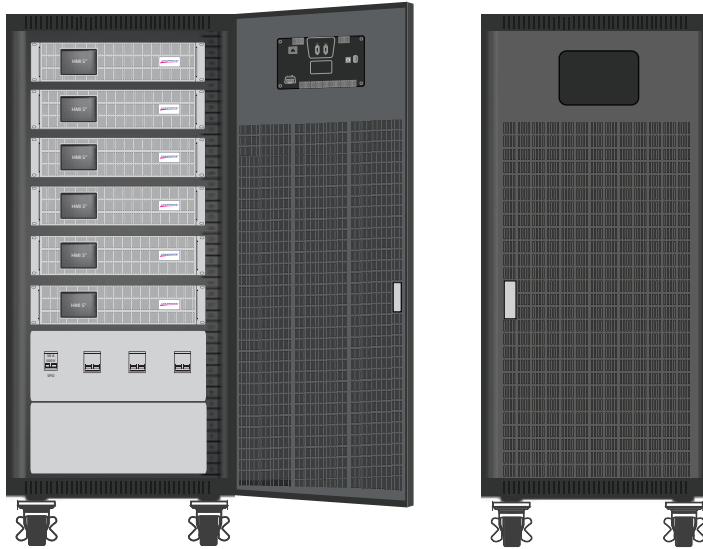
SPC250 M6 120kW

- SPC250-64 x 6 pcs

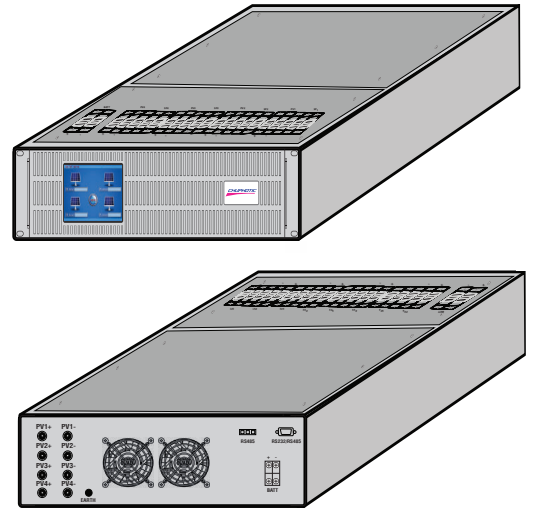


SOLAR CONTROLLER with MPPT : SUN SPC 400MX

SPC400MX

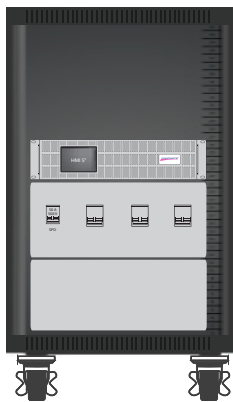


SPC400-40 20kW Module Unit



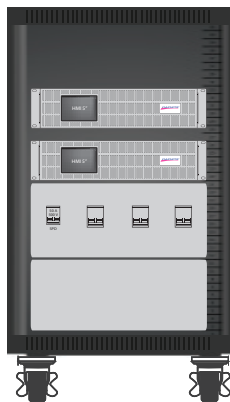
SPC400 M1 20kW

- SPC400-40 x 1 pcs



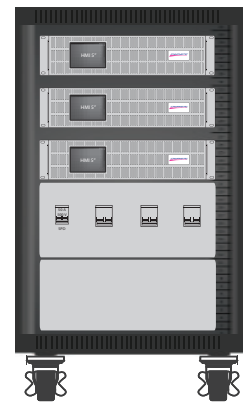
SPC400 M2 40kW

- SPC400-40 x 2 pcs



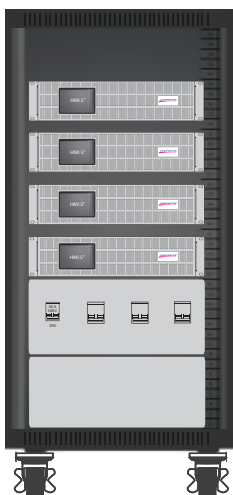
SPC400 M3 60kW

- SPC400-40 x 3 pcs



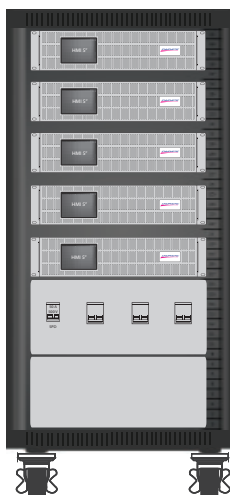
SPC400 M4 80kW

- SPC400-40 x 4 pcs



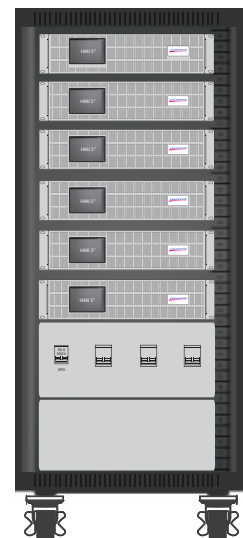
SPC400 M5 100kW

- SPC400-40 x 5 pcs



SPC400 M6 120kW

- SPC400-40 x 6 pcs



SOLAR CONTROLLER with MPPT : SUN SPC 250MX/400MX Series



MODEL		SPC250M1	SPC250M2	SPC250M3	SPC250M4	SPC250M5	SPC250M6	SPC400M1	SPC400M2	SPC400M3	SPC400M4	SPC400M5	SPC400M6		
INPUT POWER	Rated Power(kW)	20kW	40kW	60kW	80kW	100kW	120kW	20kW	40kW	60kW	80kW	100kW	120kW		
	Module Rate Power(kW)	20kW						20kW							
MODULE MODEL		SPC250-64 (250Vdc 80A)						SPC400-40 (400Vdc 40A)							
INPUT PV	SPC250/400 module	1	2	3	4	5	6	1	2	3	4	5	6		
	Max. Input power of module(kW)	20kW MPPT 5kWx4string						20kW MPPT 5kWx4string							
	Max. Input current of module(A)	≥90A						>40A							
	MPPT voltage range(Vdc)	280-450Vdc						450-750Vdc							
	Max. PV voltage (Voc)	460Vdc						800Vdc							
	PV voltage working(Vmpp)	270-300Vdc						550Vdc							
OUTPUT VOLTAGE	Normal voltage	240Vdc/210-290 Vdc						384Vdc/350-435 Vdc							
	Rated charging current(max)MX	96A	192A	288A	384A	480A	576A	45A	90A	135A	180A	225A	270A		
	Boost charging voltage	260.0-300.0 Vdc						416.0-480.0 Vdc							
	Float charging voltage	240.0-280.0 Vdc						384.0-448.0 Vdc							
	Low voltage alarm	200.0-240.0 Vdc						320.0-384.0 Vdc							
	Low voltage cut off	198.0-238.0 Vdc						316.8-380.2 Vdc							
	Reconnect voltage	230.0-270.0 Vdc						368.0-432.0 Vdc							
BATTERY	Type Mono box/Stationary	Deep Cycle Flood Lead Acid(LA)/Deep Cycle Sealed Lead Acid(SLA)/ Lithium ion(option)													
EFFICIENCY	System efficiency	≥95%(module charging efficiency ≥95%)													
	MPPT accuracy	≥98%													
PROTECTION	System	PV transient voltage, Over voltage, Under voltage, battery Voltage, Over temperature, Over current, PV reverse polarity, Battery reverse polarity													
	Alarm & Protection	Low battery Alarm, (Baterly reverse Blocking Protection)													
	Standby power consumption(W)	≤30W													
	Cooling	Automatic cooling fans													
	Noise emission(dB)/ IP level	≤50dB(at 1 meter)/ IP 20													
	Max.operation altitude(m)	5000m(>2000m derating)													
INDICATOR LCD	HMI Module(5inch)/ MX Digital meter	PV voltage/ current/ power, Battery level/ current/ power, Eney day/ month/ year/ Date, Time, Event Logger >150Days, Operate status and Alarm													
COMMUNICATION	Interface port	RS485/MODBUS													
ENVIRONMENT	Operate temperature/Storage	0 to 50° C/-25 to 70°C													
	Relative humidity	0 to 95%(Non-condensing)													
DESIGN REGULATE	Manufacturer/ Standard	ISO9001:2008.ISO14001:2004,CE 62040													
PHYSICAL	Dimension for SPC module	Rack 21inch/490(W)x650(D)x130(H)3U													
	Dimension for SPC 250/400Mx(WxDxH)	550x850x1200			550x850x1800			550x850x2000	550x850x1200			550x850x1800			550x850x2000
	Weight (kg) for module	21	21	21	21	21	21	21	21	21	21	21	21		
	Weight (kg) for SPC250/400Mx	85	100	115	135	155	180	85	100	115	135	155	180		

*Continuous products development is our commitment. In that manner, the above specifications may be changed without prior notice.

Chuphotic.BRO-15.CHG SUN SPC250MX/400MX.Rev1.80/2016