

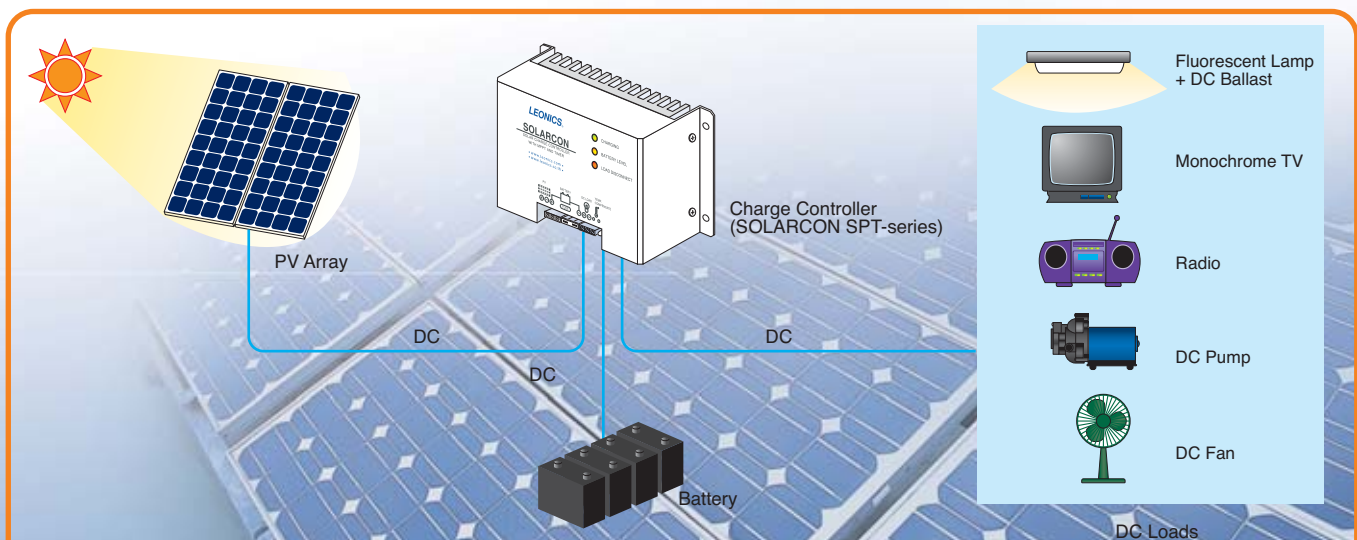
SOLARCON SPT

MPPT Charge Controller with DC Load Timer 10A



- Advanced microprocessor control
- Buck regulator wide input range
- Maximum Power Point Tracking (MPPT)
- Solar charge controller with DC load control
- 3 Step charging to provide quick and safe charging for battery
- Temperature compensation (-5 to -7 mV/cell/celsius)
- Reverse polarities protection for PV and battery
- Capable to use with high Vmp PV (a-Si PV)
- Over charge and over discharge protection
- 7 modes timer control (ON/OFF DC load) selectable
- Automatic cooling fan (outside enclosure)
- Lightning surge protection
- Comply with CISPR11 Class B Standard (option)
- C-tick compliance for EMC
- ISO 9001 and ISO 14001 certified factory

Timer Mode	DC Load Status	
	Sunrise	Sunset
0	OFF →	ON 4hrs. OFF →
1	OFF →	ON 4 hrs. - OFF 5hrs.- ON →
2	OFF →	ON →
3	OFF →	Blink (for Obstruction light)
4	ON 4 hrs - OFF →	
5 (default)	ON →	
6	ON →	OFF →



Where power demand is small and a stand alone power system is needed, the DC-Solar System is a good solution. Particularly suitable for small households, religious retreats, security outposts, small schools and remote clinics the DC-Solar System can provide reliable power for DC appliances such as lights, radio, TV, fans and pumps. And built-in Maximum Power Point Tracking (MPPT) to maximize power generated by PV modules. It can supply 10 Amp maximum DC current to DC load. The SOLARCON SPT-series also provide 7 modes of timer operation for control ON/OFF DC load such as street light, garden light, gate light, etc.

SOLARCON SPT-series MPPT Charge Controller with DC Load Timer 10 A

SPECIFICATIONS

MODEL		SPT-1206	SPT-1212	SPT-1220	SPT-1230	SPT-2412	SPT-2420	SPT-2430	SPT-2445	SPT-4812	SPT-4820	SPT-4830	SPT-4845
PV INPUT	Maximum input power	80 W	160 W	240 W	400 W	320 W	520 W	800 W	1,200 W	520 W	1,000 W	1,600 W	2,300 W
	Maximum open circuit voltage (Voc)	96 Vdc								192 Vdc		145 Vdc	
	MPPT voltage range (Vmp)	26 - 75 Vdc				30 - 75 Vdc				65 - 150 Vdc		65 - 120 Vdc	
DC OUTPUT TO BATTERY (at 25°C)	Nominal battery voltage	12 Vdc				24 Vdc				48 Vdc			
	Boost charging voltage* (LA / VRLA)	15.0 Vdc± 0.2 / 14.2 Vdc± 0.2				30.0 Vdc ± 0.4 / 28.4 Vdc ± 0.4				60.0 Vdc ± 0.8 / 56.8 Vdc ± 0.8			
	Float charging voltage* (LA / VRLA)	13.8 Vdc ± 0.2 / 13.5 Vdc± 0.2				27.6 Vdc ± 0.4 / 27.0 Vdc ± 0.4				55.2 Vdc ± 0.8 / 54.0 Vdc ± 0.8			
	Low battery disconnect voltage	10.8 Vdc ± 0.2				21.6 Vdc ± 0.4				43.2 Vdc ± 0.8			
	Battery reconnection voltage	12.5 Vdc ± 0.2				25.0 Vdc ± 0.4				50.0 Vdc ± 0.8			
	Maximum charging current	6 A	12 A	20 A	30 A	12 A	20 A	30 A	45 A	12 A	20 A	30 A	45 A
DC LOAD	Nominal voltage	12 Vdc				24 Vdc				48 Vdc			
CONTROL	Maximum current	10 A				10 A				10 A			
	Protection	Over voltage disconnect and short circuit (Type electronics switch not moving parts and no contact surface)											
PROTECTION		High battery voltage, Over charge and over discharge, PV transient voltage surge, PV reverse polarity, Battery reverse polarity											
	Approximate power consumption	less than 25 mA								less than 35 mA			
INDICATOR	LED	Charging (green), Battery status (yellow), Low battery / Low voltage disconnect (red)											
BATTERY	Type (selectable)	Deep cycle lead acid (LA) or Sealed lead acid (VRLA)											
VENTILATION	Automatic cooling fan (outside enclosure)	no	no	no	yes	no	no	yes	yes	no	yes	yes	yes
OPERATING CONDITION	Temperature	0 - 45°C											
	Relative humidity	0 - 95 % (non-condensing)											
DIMENSION	W x H x D (mm.)	160x92x65			192 x 210 x 115								
WEIGHT	Approximate in kg.	0.9	2.8		3.0	2.8		3.0		2.8	3.0		

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

Authorized Distributor
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