

## LVC/MVC/HVC Series MPPT SCC

### Product features

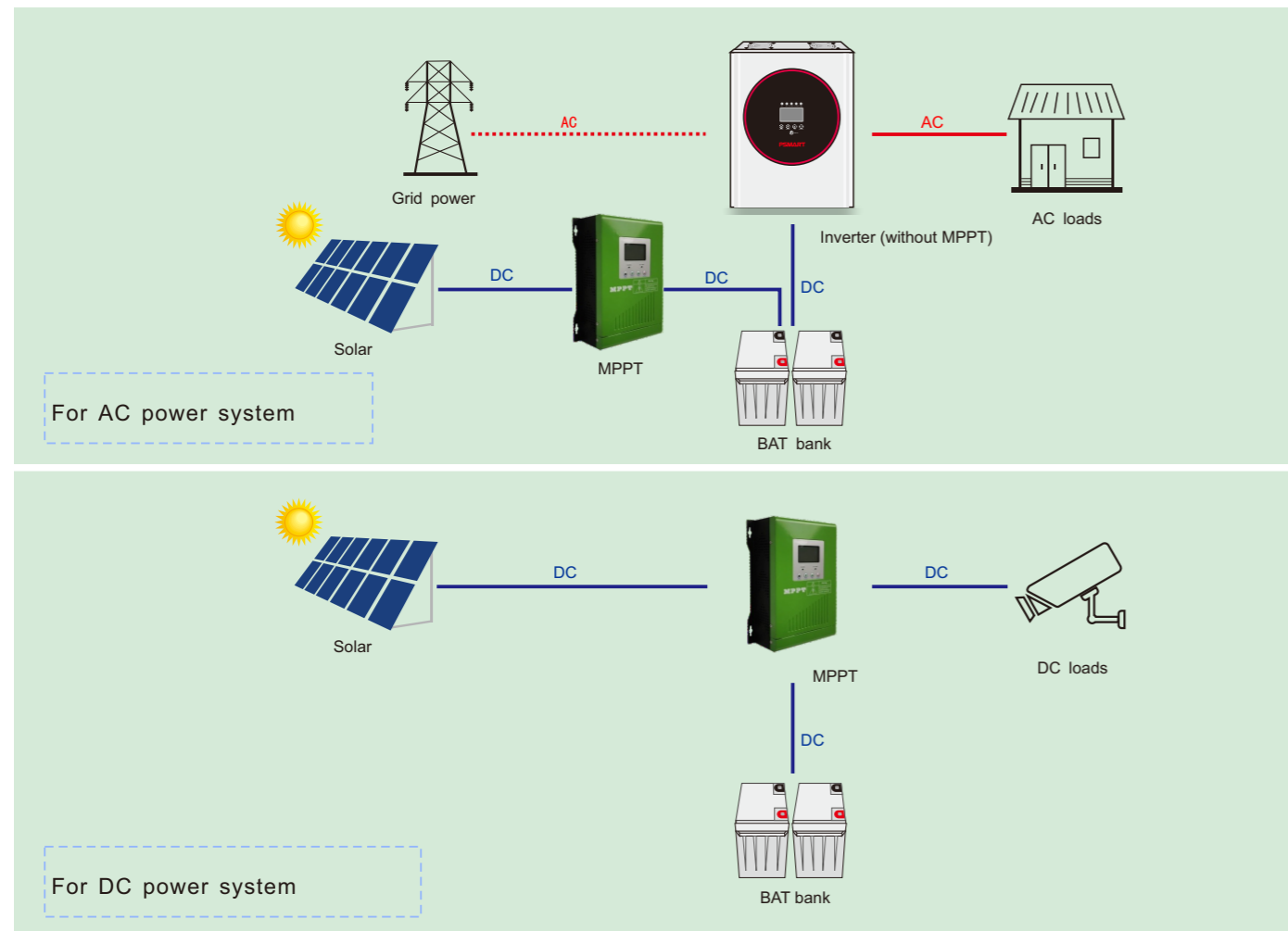
- Wide voltage range of PV input
- Three-stage charging technology
- Floating charge voltage settings
- Auto recognition 12Vdc/24Vdc/48Vdc
- DSP control technology with high efficiency
- Intelligent max power point tracking technology
- Protection
  - Short circuit protection
  - Over-current protection
  - Anti-reverse connection for PV and batteries



### Application



### Application diagram



### Technical Parameters

Model	LVC30A	LVC40A	LVC50A	LVC60A	LVC100A	LVC120A	MVC50A	MVC60A	MVC100A	MVC120A	HVC50A	HVC100A
Rated current	30A	40A	50A	60A	100A	120A	50A	60A	100A	120A	50A	100A
Max current	31A	41A	51A	61A	101A	121A	51A	61A	101A	121A	51A	101A
System voltage	12V/24V/48V(Auto-detect)						96V			192V/220V/240V		
Size (L*W*Hmm)	225*290*95			270*365*120			225*290*95		270*365*120		375*490*140(50A) 450*580*140(100A)	
Package size (L*W*Hmm)	345*255*160			315*420*170			345*255*160		315*420*170		415*540*190(50A) 490*630*190(100A)	
N.W. (KG)	2.6		3		6.8		3		6.8		12.5	25
G.W.(KG)	3		3.5		8.5		3.5		8.5		15	28

Charge mode	MPPT Automatic maximum power point tracking
Charge method	Three stages: Bulk Charging, Absorption Charging, Float Charging
Start up time	≤10s
Dynamic response time to recover	≤500us
Static power	≤2W
Efficiency	≥96.5%

System identification DC voltage range	12V : DC9V-15V 24V : DC18V-30V 48V : DC36V-60V	96V : DC72V-120V	192V : DC144V-240V 220V : DC162V-270V 240V : DC180V-300V
MPPT working voltage range (Voc of solar panel)	12V : DC20V-100V 24V : DC38V-150V 48V : DC65V-150V	96V : DC130V-180V	192V : DC260V-400V 220V : DC280V-430V 240V : DC300V-430V
Max PV input	12V : 360W/480W/600W/720W/1200W/1440W		192V : 9600W/19200W
	24V : 720W/960W/1200W/1440W/2400W/2880W		220V : 11000W/22000W
	48V : 1440W/1920W/2400W/2880W/4800W/5760W		240V : 12000W/24000W

Display	LCD+LED
Input polarity reverse connection protection	Yes
Output polarity reverse connection protection	Yes
Low voltage protection	Yes
High voltage protection	Yes
Short circuit protection	Yes
Over temp protection	+85°C
Cooling method	air cooling, fan speed is regulated by temperature, when internal temperature is low; when the controller stops working, the fan stops working
Noise	≤50dB
Humidity	<95% (Non-condensing)
Altitude	0~3000M
Working Temp.	-20°C~+40°C
Storage Temp.	-40°C~+70°C

\*The specifications, dimensions and materials are subject to change without further notice.