

Helios Series IGBT MPPT SCC

Product features

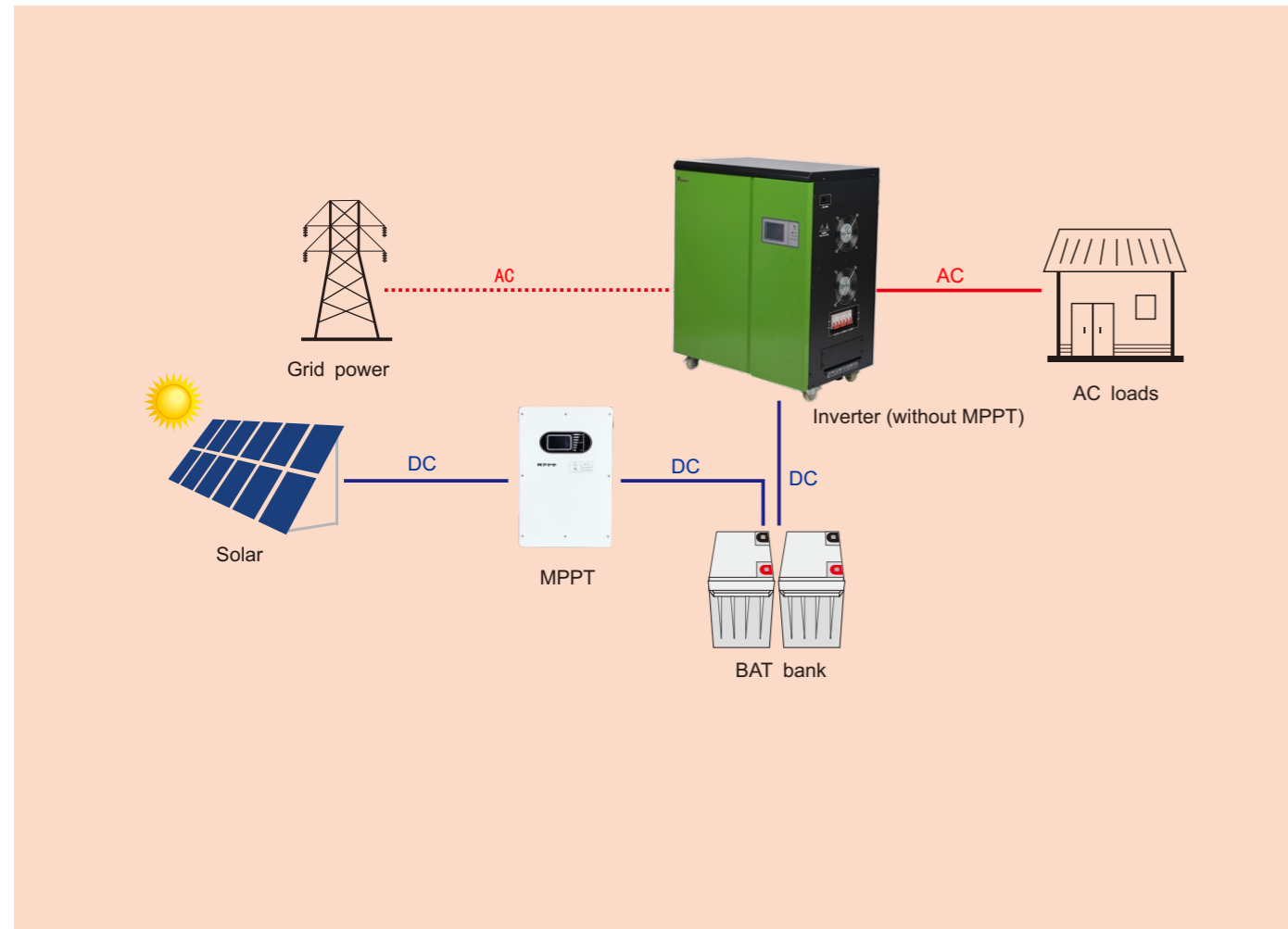
- IP60 protection for PCB
- Wide voltage range of PV input
- Three-stage charging technology
- Floating charge voltage settings
- Lithium battery activation function
- DSP control technology with high efficiency
- Intelligent max power point tracking technology
- Protection
 - Short circuit protection
 - Over-current protection
 - Anti-reverse connection for PV and batteries



Application



Application diagram



Technical Parameters

Model	Helios 150A-L	Helios 180A-L	Helios 200A-L	Helios 150A-M	Helios 180A-M	Helios 200A-M
Rated current	150A	180A	200A	150A	180A	200A
Max current	151A	151A	201A	151A	151A	201A
System voltage	48V			96V		
Size (L*W*Hmm)	515*346*225			515*346*225		
Package size (L*W*Hmm)	650*400*280			650*400*280		
N.W. (KG)	17			17.5		
G.W.(KG)	19.5			20		

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	48V: DC36V-60V			96V: DC72V-120V		
MPPT working voltage range (Voc of solar panel)	48V: DC65V-250V			96V: DC130V-300V		
Max PV input	8000W	9000W	10000W	16000W	18000W	20000W

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.