



Intelligent String Energy Storage Converter

CSEC-200K-T6901A-E

CSEC-215K-T6901A-E

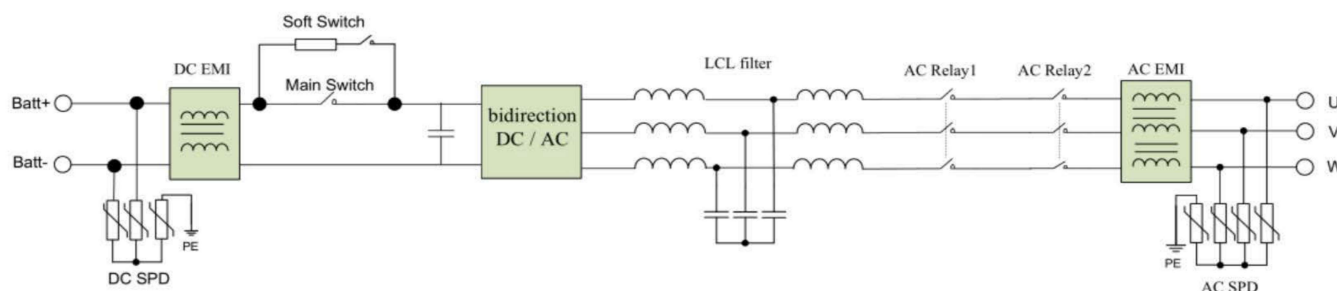


In response to the issue of inconsistent characteristics when multiple clusters of energy storage battery systems are connected in parallel, CSI has launched a new 1500V intelligent series energy storage converter based on the current 314Ah and above battery cells. In long-term energy storage applications, meet the battery standard of 0.5C or higher charging and discharging requirements; Configure a series of energy storage converters on the battery cluster side to achieve cluster by cluster current conversion, to improve active current sharing and power control on the DC side, suppress inter cluster circulation and reduce losses, and further improve the cycle life and full life cycle charging and discharging capacity of the battery.

FEATURES

- Three-level topology, over 98.90% conversion efficiency, better power quality
- Supports parallel connection of multiple modules, compatible with 1C frequency modulation application fields
- Supports constant power, constant current, and constant voltage control, supporting primary frequency modulation, VSG, and black start
- Supports protocols such as IEC61850 and GOOSE, with ms level response capability
- IP66 protection and C5 anti-corrosion grade, suitable for various complex occasions
- Intelligent multi-stage fan speed control system, wide temperature operation capability
- Integrated cluster level battery management function for balanced battery current conversion and health status management
- Support cloud platform management, visualization of PCS and battery operation status, and online monitoring

CIRCUIT DIAGRAM



SYSTEM TECHNICAL DATA		
Model No.	CSEC-200K-T6901A-E	CSEC-215K-T6901A-E
DC Parameters		
Max. DC Voltage	1500V	
DC Voltage Range	1000-1500V	
String Input Nb.	1	
Max. DC Current	222A	240A
AC Parameters (on grid)		
Rated AC Power	200kW	215kW
Max. AC Power (Apparent)	220kVA@ 35°C, 200kVA@ 45°C	236.5kVA@ 35°C, 215kVA@ 45°C
Rated AC Voltage	690Vac	
AC voltage range	607-759V (Adjustable)	
Grid Connection Type	3W+PE	
Max AC Current	184.1A	197.9A
Rated AC Frequency	50 Hz	
THDi	<3%	
Power Factor	-1 ... +1	
AC Parameters (Off-Grid)		
Rated AC Voltage	690Vac (3W+PE)	
AC voltage distortion	<1.5% (100% linear load)	
DC voltage component	<0.5% Un	
Unbalanced load capacity	≤30%	
Nominal grid frequency	50Hz	
Efficiency		
Max. Efficiency	>99 %	
Environment		
Protection Degree	IP66	
Noise	75 dB (1m distance)	
Cooling	Smart Fan Cooling	
Operating Temperature Range	-30°C~+60°C	
Operating Humidity (non-condensing)	0 - 100 %	
Operating Altitude	4000 m (> 3000m derating)	
Protection & Function		
Anti-Islanding Protection	Yes	
Ac overcurrent protection	Yes	
DC Reverse-Polarity Protection	Yes	
DC Insulation Resistance Dection	Yes	
DC / AC SPD	DC Type II / AC Type II	
Display & Communication		
Display	LED Indicators	
Communication	CAN/RS485/Ethernet	
Communication protocol	Modbus TCP/Modbus RTU/CAN 2.0	
Mechanical Data		
Dimensions (W / H / D)	780 X 865 X 280mm	
Weight	95 kg	
Installation mode	Rail type mounting	
DC connection type	Energy storage connector	
AC connection type	Energy storage connector	
Certification		
Safety&Grid Code	IEC 62477-1, G99	
EMC Standard	IEC61000-6-2/4	

The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, CSI SOLAR CO., LTD. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.