



CSI Standalone Inverter with Static Switch



CSI series inverters with integrated static switch supplies uninterrupted, highly efficient and stable single phase AC sine wave voltage from a battery bank. The magazine design can be easily installed into 19 inch cabinets, and designed for use in telecom, communication, finance, utilities, transportation, military and other fields.

In case of overload or failure the load is automatically switched between inverter output and AC bypass voltage without interruption via an integrated static transfer switch ensuring uninterrupted output voltage. The user may set the operation mode, output voltage and input and output protection thresholds via the front panel LCD display and keys as required. In addition, communication interfaces such as RS232, SNMP and voltage free contacts alarm signals are provided to comply with monitoring requirements.

Features

- 19 inch subrack/magazine design
- Single phase sine wave output voltage
- Intelligent function and easily modifiable working mode and parameters
- Input and output protection
- High frequency switching technology, high reliability, compact and lightweight
- Integrated static transfer switch
- Low DC reflected noise
- Load power factor: 0.7 lead to lag
- Flexible supervision function: RS232, SNMP and voltage free contacts alarm



Electrical data						
Model	CSI1K	CSI2K	CSI3K	CSI5K	CSI7.5K	CSI10K
Nominal Capacity	1000VA	2000VA	3000VA	5000VA	7500VA	10000VA
	800W	1600W	2400W	4000W	6000W	8000W
DC Input						
Voltage	48Vdc: 40 to 60Vdc, 110Vdc: 90 to 160Vdc or 220Vdc: 180 to 280Vdc					
Reflected Relative Psophometric Noise Current	≤ 1%					
Reflected Relative Wide Band Noise Current	≤ 10%					
AC input						
Input	Single phase L,N, PE					
Voltage	110, 120, 220, 230 or 240Vac (Adjustable)					
Frequency	50 or 60Hz ± 5Hz					
AC Output						
Voltage	110, 120, 220, 230 or 240Vac (Adjustable)					
Frequency	50 or 60Hz ± 5Hz (Automatic sensing)					
Waveform	Sine Wave					
Total Harmonic Distortion	2% (resistive load)					
Dynamic Response	≤ 1ms (resistive load change of 10-100-10%)					
Efficiency	≥ 90% (86-92% depending on model rating)					
Crest Factor	3:1					
Transfer Time						
Inverter to Bypass	≤ 1ms, typical					
Bypass to Inverter	≤ 1ms, typical					
Audible Noise	≤ 55dB (A)					
Protection						
DC	Over/under voltage shut down and reverse polarity protection					
Short Circuit	Automatic current limit, the inverter recovers upon removal of overload or short circuit					
Overload	105-125% overload for 10 minutes; 125-150% overload for 10 seconds					
Over temperature	When inverter internal temperature exceeds 90C, the inverter will shut down with automatic restart on temperature recovery. Fan speed is load level controlled					
LCD display and Indicators	Indicates load capacity and inverter status					
Safety Standard	Comply with IEC60950					
EMC	Comply with CISPR22 class B					
Environmental						
Operating Temperature	-5 to +50C					
Relative Humidity	< 90%, non-condensing					
Mechanical data						
Dimension W x D x H (mm)	482x310x44	482x310x88	482x310x88	482x400x88	482x480x88	482x480x88
Weight (kg)	4.6	6.7	6.7	9.7	12	14.5