

Reliable frequency transformation

10 - 15 kVA/kW

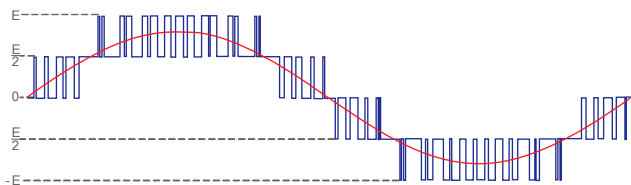


FEATURES

- IGBT 3-level topology
- Output Power Factor 1.0, higher critical load capacity
- Active Power Factor Corrector (APFC), input P.F. up to 0.99
- Wide input voltage range
- Pure sine wave, providing a clean, harmonic-free output signal, ideal for sensitive equipment
- Smart fans, lower noise and longer life
- LCD 5" colorful touch screen, friendly interface and Converter status LEDs
- Communications RS232, USB, dry contacts, smart slot, modbus
- Conformal coating on electronic PCB, operation in harsh environments

3-level topology

Frequency converters include a 3-level IGBT topology, increasing their operating efficiency.



Complete protection



Blackouts



Spikes



Harmonics



Transient



Frequency variation



Sags/swells



Surges



Under-voltage



Noise

Applications

Recommended for equipment with 50 Hz frequencies, such as PLCs, power supplies, variable speed drives, control equipment and more.

Three-Phase Frequency Converter

MODEL	FC33-10TL	FC33-15TL
Power capacity	10 kVA / 10 kW	15 kVA / 15 kW
Topology (Online)	Double conversion	
INPUT		
Nominal voltage	(3Phase, N + GND) 208/120, 220/127 VAC	
Voltage range	(128 ~ 260) VAC, Line voltage (-58%) ~ (+18%)	
Frequency	50/60 Hz (auto-sensing); (40 - 70) Hz	
Power factor	≥ 0.99 typical	
Total Harmonic Distortion (THDi)	≤ 3%	
OUTPUT		
Output voltage (220/127 VAC default)	(3Phase, N + GND) 190 / 200 / 208 / 220 VAC; Line voltage	
Voltage regulation	±1%	
Frequency (Battery mode)	50 Hz ±0.1 Hz	
Power factor	1.0	
Waveform	Pure sine wave	
Crest factor	3:1	
Total Harmonic Distortion (THDv)	≤ 1% (carga lineal)	
Overload capacity	101% < load ≤ 110%, 60 min; 110% < load ≤ 125%, 10 min; 125% < load ≤ 150%, 1 min; Load > 150%, 0.2 sec;	
SYSTEM		
Efficiency (normal mode)	93%	
Parallel function	4 max.	
Control panel	LCD 5" color touch screen + LED status indicators + Audible alarm	
Smart protection	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure	
BACKUP TIME (Optional)		
Battery type	Lead Acid Batteries (VRLA), maintenance free	
Backup time 50% load Internal battery	1 strings (9Ah/12V)(20)= 9.5 min 2 strings (9Ah/12V)(40)= 24 min	2 strings (9Ah/12V)(40)= 14 min 3 strings (9Ah/12V)(60)= 24 min
Backup time 100% load Internal battery	1 strings: (9Ah/12V)(20)= 4 min 2 strings: (9Ah/12V)(40)= 9.5 min	2 strings (9Ah/12V)(40)= 5 min 3 strings (9Ah/12V)(60)= 9.5 min
External battery Bank connector	Hardwire terminals block (Positive, Negative & Neutral)	
ENVIRONMENT		
Noise	≤ 60dB (100% load) @ 3.8 ft (1 m.)	
Humidity	0 - 95% (non-condensing)	
Operation Temp.	(32 ~ 104)°F ; (0 ~ 40) °C	
IP Level	IP 20	
PHYSICAL		
Dimensions (Width x Depth x Height)	(9.84 x 31.49 x 27.55)in (250 x 800 x 700)mm	(9.84 x 33.07 x 36.61)in (250 x 840 x 930)mm
Weight (without batteries)	136.68 lb / 62 Kg	216.05 lb / 98 Kg
MANAGEMENT & CONTROL		
Communication ports	RS232, RS485, USB, smart card Slot, dry contacts	
Smart slot	SNMP, Wi-Fi, Dry Contact card (optional)	
CONFORMITY & STANDARDS		
Safety Certification	EN IEC 62040-2:2018, EN 61000-3-12:2011, EN 6100-3-11:2000, EN IEC62040-1:2019, IEC 62040-3:2011, IEC 62040-1:2017, CE	

**Product specifications are subject to change without notice.

*USA-V2508-REV1.00

