

Reliable frequency transformation

50 - 600 kVA/kW

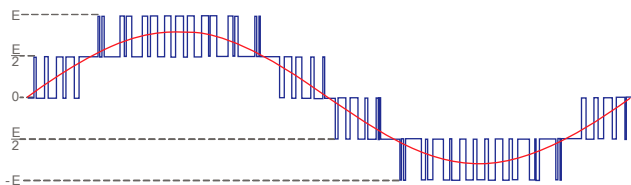


FEATURES

- › IGBT 3-level topology, 94% efficiency
- › Output Power Factor 1.0, higher critical load capacity
- › Modular hot-swap design in power and communication
- › Wide input voltage range
- › N+X parallel redundant control system
- › MTBF of 250,000hr and MTTR of 1 hr
- › LCD 7" colorful touch screen, friendly interface
- › Pure sine wave, providing a clean, harmonic-free output signal, ideal for sensitive equipment

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	FC48033TL-200PC	FC48033TL-300PC	FC48033TL-400PC	FC48033TL-500PC	FC48033TL-600PC
Capacity	50 ~ 200 kVA/kW	50 ~ 300 kVA/kW	50 ~ 400 kVA/kW	50 ~ 500 kVA/kW	50 ~ 600 kVA/kW
Power Module [PS48033TL-50K]	50 kVA/kW				
Maximum Power Modules	4	6	8	10	12
Topology	Online high-frequency double conversion 3-Level IGBT				
INPUT					
Nominal voltage	480 VAC (3Phase, N + GND)				
Voltage range	(340 ~ 550) VAC, @ 100% load (L - L)				
Frequency	50/60 Hz (auto-sensing)				
Frequency range	(40 - 70) Hz				
Power factor	≥ 0.99				
Total Harmonic Distortion (THDi)	< 3% (100% load); < 5% (50% load)				
OUTPUT					
Output voltage (Selectable on screen)	480/277, 460/265, 440/254 VAC (3 Phases, N + GND)				
Voltage regulation	± 1%				
Frequency (Battery mode)	50 Hz +/- 0.1Hz				
Power factor	1.0				
Crest factor	3:1				
Total Harmonic Distortion (THDv)	≤ 2% (linear load); ≤ 4% (non-linear load)				
Overload capacity	<110%, 60 min; 110 ~ 125%, 10 min; 125 ~ 150%, 1 min; >150%, 200 ms				
SYSTEM					
Efficiency (normal mode)	96%				
Control panel	LCD 7" colorful touch screen (Intuitive graphical interface)				
Communication and Monitoring	CAN, RS485, FE, LBS, SNMP, Dry contacts, Modbus				
Parallel function	Max. 4 units in parallel				
BACKUP TIME (OPTIONAL)					
Battery type	Lead Acid Batteries (VRLA), maintenance free				
Nominal voltage (adjustable)	(±204~300) VDC (34~50) VRLA Batteries				
Charger current	1~15A per power module (adjustable by LCD)				
Compatibility	LiFePO4 Lithium Battery Bank				
ENVIRONMENT					
Noise	≤ 70 dB @ 3.2 ft (1 m.)				
Altitude without derating	< 4921.26 ft (1500m)				
Humidity	0 ~ 95% (non-condensing)				
Operation Temp.	(32 ~ 104)°F ; (0 ~ 40) °C				
IP Level	NEMA 1; IP 20				
PHYSICAL					
Cabinet dimensions (Width x Depth x Height)	(23.62 x 33.46 x 78.74) in (600 x 850 x 2000) mm		(47.24 x 33.46 x 78.74) in (1200 x 850 x 2000) mm		
Cabinet weight	392.42 lb / 178 Kg	529.10 lb / 240 Kg	906.10 lb / 411 Kg	959.01 lb / 435 Kg	1119.95 lb / 508 Kg
Power module dimensions (Width x Depth x Height)	(17.32 x 24.40 x 5.11) in (440 x 620 x 130) mm				
Power module weight	72.75 lb / 33 Kg				
CONFORMITY & STANDARDS					
Safety Certification	EN62040-1, EN62040-2				

**Product specifications are subject to change without notice.
*USA-V2508-REV1.00

