Single / Three Phase

Variable Frequency Converter

เครื่องปรับเปลี่ยนแรงดัน-ความถี่ไฟฟ้า

ADJUSTABLE
0-300Vac
0-520Vac (3Phase)
40Hz - 499.9Hz

E-FC Series — 0.5kVA - 300kVA

Features

- 50Hz 60Hz or 400Hz Input Frequency
- 0-300Vac Output Voltage range (Adjustable)
- 40Hz to 499.9Hz Output Frequency range (Adjustable)
- Programmable key lock setting output frequency
- Easy-to-read LEDs display Output Voltage, Frequency, Ampere, Wattage & Power factor
- Self-detection at power on, Stable True Sine Wave output
- Galvanic isolation. No Harmonic Distortion
- PWM technology enhances compact size light weight
- IGBT module generates high efficiency, low noise & max. reliability
- Capable of generating all kinds of frequencies used in all countries
- 300% Powerful overload capability
- Breaker/alarm for overload, over temperature, and short circuit protection
- Suitable for use with resistive, capacitive, inductive and non-linear loads

Applications

- Standard power source for EMI / EMC / safety testing
- QA / QC / Life & Safety test
- Air conditioner test
- Compressor test
- Electric machinery product test
- Superior AC power source for R & D / Laboratory
- Switchmode power supply test
- Electronic ballast test
- AC fan test
- Communication, Avionics & Marine equipment
- Transformer test
- Copier / OA Equipment test
- Air craft grounding equipment
- Military dianostic systems
- Computer / Monitor / Scanner & Peripherals test
- Motor test
- Triac / SCR test
- (Home) Electrical appliances

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- (Home) electrical appliances
- Electronic ballast test

Specification :

Phase	Single	Three
Models	****E-FC11/31** (0.5kVA ~ 50kVA)	****E-FC33/13** (3kVA ~ 300kVA)
System Topology	IGBT / Pulse Width Modulation	
INPUT		
VOLTAGE (Selectable)	1 Phase 2Wire : 110V (2 to 5kVA) / 220V / 230V / 240V ±10%	
	3 Phase 4Wire : Wye Type 190 / 110V; 220 / 115V; 208 / 120V; 220/128V; 230 / 132V; 240 / 139V ±10%	
	3 Phase 4Wire : Wye Type 380 / 220V; 400 / 230V; 415 / 240V; 440 / 254V; 460 / 265V; 480 / 277V; ±10%	
	3Phase 4Wire : Delta type 220V; / 230V; / 240V; / 380V; / 400V; /415V; / 440V ±10%	
FREQUENCY (Selectable)	47Hz ~ 63Hz or 400Hz ±5%	
OUTPUT		
VOLTAGE	110V Setting (Low Range) : 0 ~ 150V ≤±1%	0 ~ 520V ≤±1% *Optional : 0 ~ 600V ≤±1%
	220V Setting (Low Range) : 0 ~ 300V ≤±1%	
Frequency	40Hz to ***400Hz - upto 499.9Hz (Programmable) ≤± 0.01%	
DISTORTION (THD)	Pure Sine Wave, ± 2%	
DISPLAY	4 LED Digitals Display for Frequency, Voltage, Current and Power	
PROTECTION	Electronic Circuit / Circuit Breaker for Overload, Over Temperature, Instant Cut off, Short Circuit	
TEMPERATURE	0 ~ 45 °C	
ALTITUDE / HUMIDITY / NOISE	<1000M / <90% / 55dB	

SING PHASE SPECIFICATIONS												
POWER RATING	500VA	1kVA	2kVA	3kVA	5kVA	6kVA	10kVA	15kVA	20kVA	30kVA	45kVa	50kVa
DIMENSION (WxDXH) MM	335 x 370 x 138		350 x 530 x 675				350 x 550 x 855			450 x 630 x 1000		

THREE PHASE SPECIFICATIONS												
POWER RATING	10kVA	15kVA	20kVA	30kVA	50kVA	60kVA	75kVA	100kVA	120kVA	150kVA	200kVA	250kVA
DIMENSION (WxDXH) MM	700 x 480 x 1370			800 x 560 x 1660		1000 x 800 x 1800			1200 x 800 x 1880		-	

* Specification are subject to change without prior notic.

SPC. 26-11-25

MODEL : ****E-FC11** = 1P Input : 1P Output, ****E-FC33** = 3P Input : 3P Output
****E-FC31** = 3P Input : 1P Output, ****E-FC13** = 1P Input : 3P Output
*** 400Hz - 499.9Hz Frequency Valiable mode for Non-continuous Load Operation only

ENERTEK
Total Power Solutions

Distributor / Dealer