



# Frequency Converter

เครื่องปรับเปลี่ยนแรงดัน-ความถี่ไฟฟ้า

Single  
Three Phase

[www.u-pt.com](http://www.u-pt.com)



ADJUSTABLE  
0-300Vac  
0-600Vac (3Phase)  
40Hz - 499.9Hz

## E-FC Series — 0.5kVA - 150kVA

### Features

- 50Hz 60Hz or 400Hz Input Frequency
- 0-300Vac Output Voltage (Selectable)
- 40Hz to 499.9Hz Output Frequency range
- Programmable key lock setting output frequency
- Easy-to-read LEDs display Output Voltage, Frequency, Ampere, Wattage & Power factor
- Stable true sine wave output
- Self-detection at power on
- 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 diagnostic systems
- Computer / Monitor / Scanner & Peripherals test
- Motor test
- Triac / SCR test
- (Home) Electrical appliances

### Specifications

PHASE	Single	Three
MODELS	**E-FC11/31 (0.5kVA ~ 45kVA)	**E-FC33/13 (3kVA ~ 150kVA)
SYSTEM TOPOLOGY	IGBT / Pulse Width Modulation	
<b>INPUT</b>		
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%	
<b>OUTPUT</b>		
VOLTAGE	110V Setting (Low Range) : 0 ~ 150V ±1% 220V Setting (Low Range) : 0 ~ 300V ±1%	*Optional : 0 ~ 600V ±1%
FREQUENCY	40Hz to 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 : <1000M / HUMIDITY : <90% / NOISE : 55dB		

#### SINGLE PHASE SPECIFICATIONS

POWER RATING	500VA	1kVA	2kVA	3kVA	5kVA	8kVA	10kVA	15kVA	20kVA	30kVA	45kVA	-	
DIMENSION (WxDxH) MM	355 x 370 x 138			350 x 530 x 675			350 x 550 x 850			450 x 630 x 1000			-

#### THREE PHASE SPECIFICATIONS

POWER RATING	3kVA	6kVA	10kVA	15kVA	20kVA	30kVA	45kVA	60kVA	75kVA	100kVA	120kVA	150kVA
DIMENSION (WxDxH) MM	700 x 480 x 1370					800 x 560 x 1660		1000 x 800 x 1800		1200 x 800 x 1860		

\* Specification are subject to change without prior notice.

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

Spec. STD.04-05-17



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