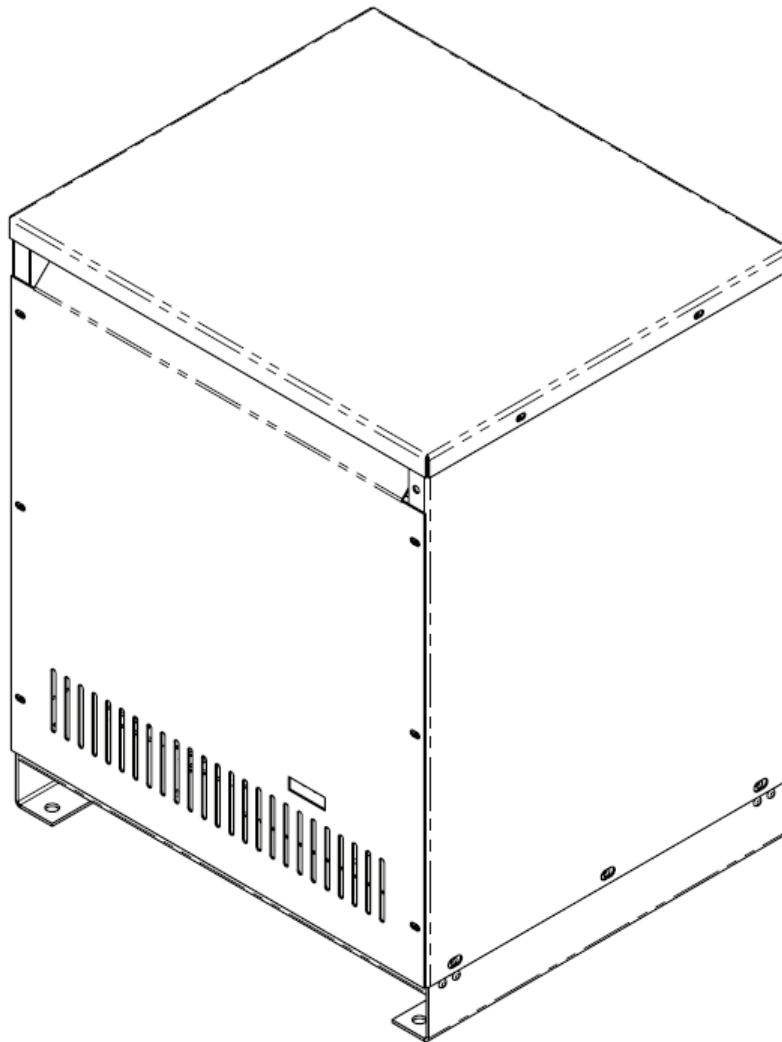


**Power Conditioner**

*Series 600K-he 15-500kVa 60/50 Hz*



# INTRODUCTION

## Power Conditioner

*Series 600K-he, 15-500kVa 60/50 Hz*

Trystar’s ULTRA-K Series 600K-he High Efficiency, K-Rated, Power Conditioning Transformers are specifically designed to protect sensitive electronic equipment from electrical noise, harmonics, and voltage transients. The ULTRA-K establishes a new neutral to ground bond on the transformer’s output, meeting the definition of a separately derived power source as defined in NFPA 70, Article 250.20 (D). Its robust copper-wound construction, K-rated design, and high-efficiency core minimize losses while delivering clean, stable power in demanding environments.

### Key Features

#### Input / Output Circuit Breaker

Circuit breaker (15A – 800A ratings) provided in a separate NEMA 1 enclosure for external mounting and installation.

#### High / Over Temperature Alarm Contacts

Thermal warning alarm contacts for customer’s hardwired connection. Thermal sensors at 180° C and 200° C.

#### NEMA 3R Enclosure

UL Listed NEMA 3R enclosure for outdoor installations. The enclosure is constructed using 14 gauge galvanized steel and provided with a durable powder coat paint finish.

#### IR Scanning Window

Infrared, transparent polymer IR window(s) for safe thermal scanning of transformer connections under load, without exposing personnel to arc flash hazards.

#### Exceptional Electrical Noise Attenuation

Standard dual electrostatic shielding provides 126 dB common-mode noise attenuation. Optional triple shielding increases attenuation to 146 dB, offering 10× greater noise reduction.

# SPECIFICATIONS

Power Output		
	Three Phase	15, 30, 45, 75, 112.5, 150, 225, 300, 500 kVA
	Input	(15-150kVA) 208, 240, 480, or 600 VAC (Delta)
		(225-500kVA) 480, 600 VAC (Delta)
	Voltage Taps s (15-300kVA*)	(2) 2.5% Full Capacity Above Nominal
		(4) 2.5% Full Capacity Below Nominal
* Exception	(112.5kVA - 150kVA at 208 VAC or 240 VAC) (500kVA)	(1) 5% Full Capacity Above Nominal
		(2) 5% Full Capacity Below Nominal
		(1) 3.5% Full Capacity Above Nominal
		(2) 3.5% Full Capacity Below Nominal
Frequency		
	60 Hz (+/- 5%)	Standard
	50 Hz	Optional, consult factory

## SPECIFICATIONS (CONT.)

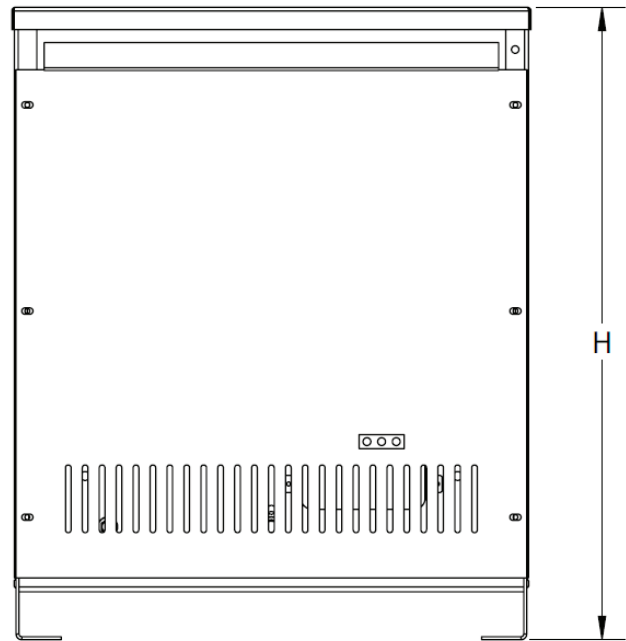
Environmental		
	Operating Temperature	-13 to 104°F (-25 to +40° C)
	Humidity	0 to 95% non-condensing
	Altitude	Up to 5,000 ft without derating
	Audible Noise	45-60 dBA @ 1 m (kVA dependent)
K-factor		
	Ratings	K4, K7, K13, K20
Mechanical		
	Enclosure	Standard, floor mounted: NEMA 2 up to 225kVA NEMA 1 at 300kVA and 500kVA Note: Optional NEMA 3R outdoor enclosure available up to 225kVA
Frequency		
	60 Hz (+/- 5%)	Standard
	50 Hz	Optional, consult factory
Accessories		
	Output SPD with high-frequency filter (40–200 kA)	
	External input/output circuit breakers (15–800 A)	
	High / over-temperature alarm contacts (180°C / 200°C)	
	IR scanning window(s)	
	Mechanical lug kits	
	Custom voltages and special designs (e.g., high-leg delta)	

## DIMENSIONAL DRAWINGS

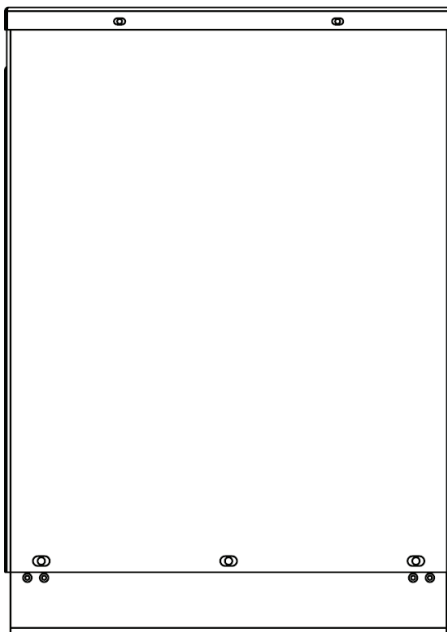
(in Inches)

	W	D	H
15kVa - 30kVa (3ph)	23	20	28
45kVa - 75kVa (3ph)	28.3	20	28
112.5kVa - 225kVa (3ph)	38.2	32.2	57.2
300kVa (3ph)	56	41.5	48
500kVa (3ph)	45	48	62.75

Front View



Side View



Top View

