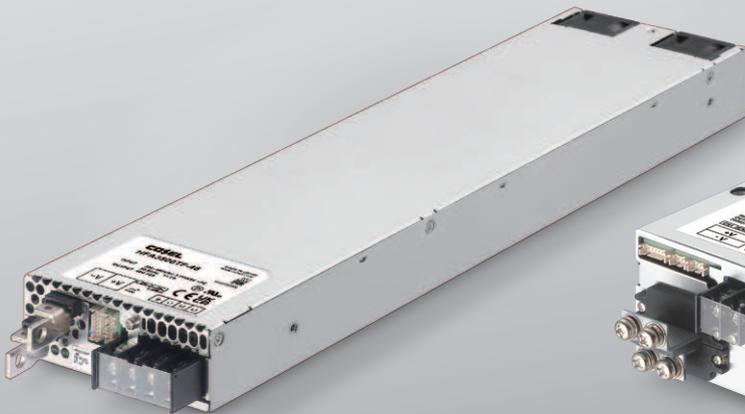


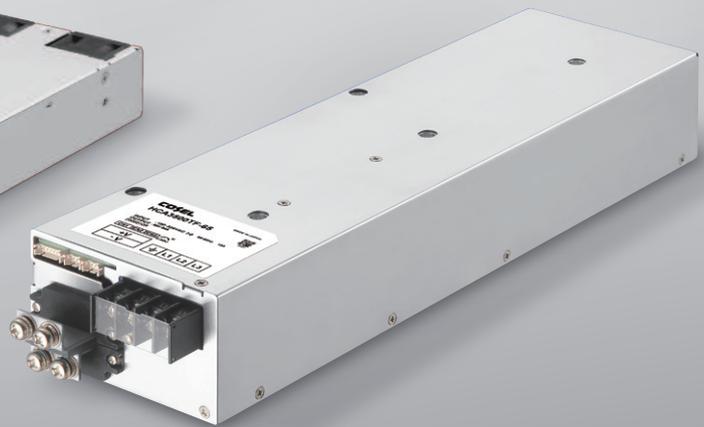


# Universal 3-phase AC-DC Power Supply

Universal 3-phase input (Suitable for both Delta and Wye configurations)



HFA series *Forced Air Cooling*



HCA series *Conduction Cooling*

## 3500W

**NEW**

# HFA/HCA

series



**Universal 3Phase**  
3φ180V~528VAC対応!

# HFA/HCA series

**Wide Input Range 3φ 200-480VAC  
3500W Power Supply**

## Forced Air Cooling / Conduction Cooling

Available to choose between Forced Air Cooling Type and Conduction Cooling Type.

### HFA series

#### Forced Air Cooling Type

Available to operate under Simple Heat Dissipation. The Forced Air Cooling Type is convenient for many users where it isn't installed in water-cooling conditions.

Low  
Profile

High  
Power  
Density

Simple  
Heat  
Dissipation

**1U**

41 mm  
(1.61 inches)

### HCA series

#### Conduction Cooling Type

For applications in harsh environments. The conduction cooling can make the design for high environmental ruggedness simple. (The unit can be used with the water-cooled heat sink for laser module or the high-frequency amplifier.)

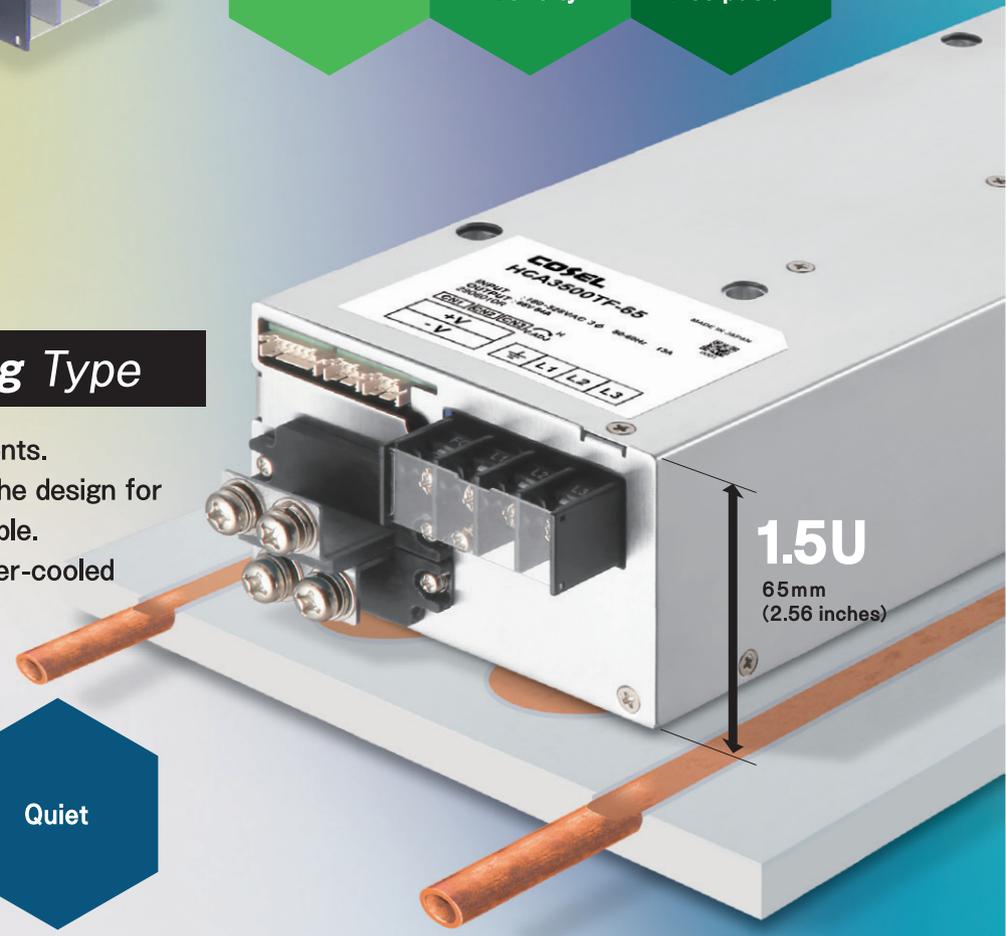
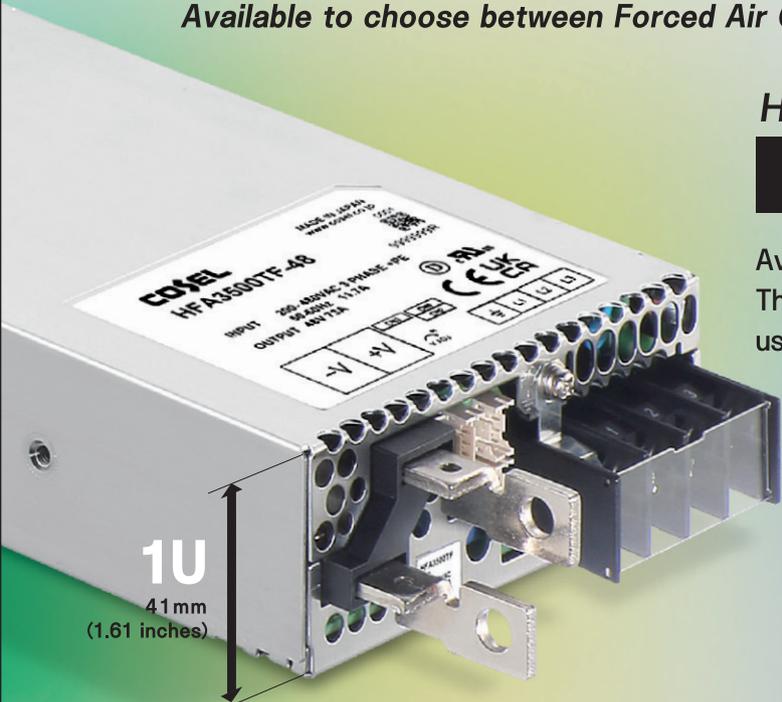
To withstand  
Harsh  
Environments

Improving  
the Derating  
Curve

Quiet

**1.5U**

65 mm  
(2.56 inches)



For High-power Applications

## Such as MRI, Plasma processing and Laser



For Design of RF amplifier

# 48V 65V

HFA and HCA are available with a 65 or 48 VDC output. Useful with RF amplifiers used on MRI and Laser applications.

# 94% Maximum Efficiency

The high efficiency has been achieved with Wide bandgap Semiconductors (SiC).

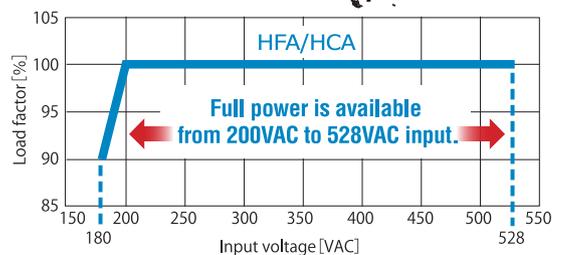
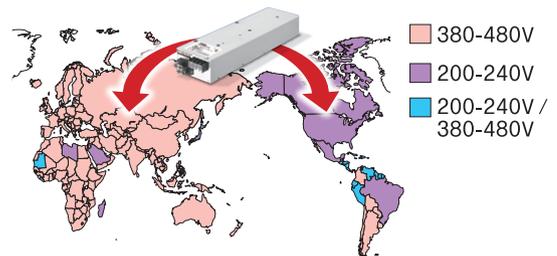
Universal Three phase Input

# 200VAC-480VAC

## Available for any 3-phase input in the world

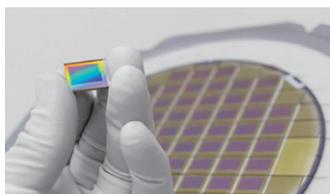
HFA and HCA can be used with both types of 3-phase input, Delta or WYE. So, the power supply can be communalized.

High efficiency has been achieved and the full power is available at 200VAC input by Water-cooled heat dissipation technology.



SEMI-F47

Complied with SEMI-F47. Suitable for the Semiconductor Processing Applications.



Parallel and Series Operation

**Parallel** 10 units max.

**Series** 400V max.\*

Various combinations are possible that are suitable for many applications.

\* Isolation between Output and FG is 2000VAC.

Target Applications

- Laser
- Plasma processing
- MRI
- Induction Heating system
- High-frequency amplifier

# HFA/HCA series



"Delivering power to factories around the world."



**NEW** HFA (Forced Air Cooling)



HCA (Conduction Cooling)

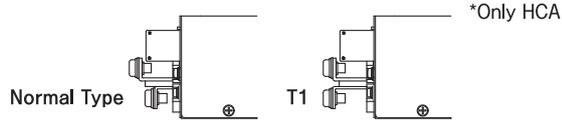
Model	HFA3500TF		HCA3500TF	
Output Voltage	48V	65V	48V	65V
Input Voltage	3Φ 180 - 528VAC (Derating is required at less than 200VAC.)			
Output Current	73A	54A	73A	54A
Output Power	3504W	3510W	3504W	3510W
Power Factor (200VAC / 400VAC, I <sub>o</sub> =100%)	0.95 / 0.94			
Efficiency (200VAC / 400VAC, I <sub>o</sub> =100%)	91% / 93%	92% / 94%	91% / 93%	92% / 94%
Leakage Current (480VAC, 60Hz, I <sub>o</sub> =100%)	3mA max.			
Operating Ambient Temperature	-10 to +70°C (Ambient)		0 to +55°C (Base plate), -10 to +70°C (Ambient)	
Safety Standard Approvals	UL62368-1, C-UL (CAN/CSA-C22.2 No62368-1), and EN62368-1			
Conducted Noise	Complies with FCC Part15-A, FCC Part18-A, CISPR11-A, CISPR32-A, EN55011-A, EN55032-A and VCCI-A			
Size (W x H x D) mm (Excluding terminal blocks and screws.)	110 x 41 x 468 (4.33 x 1.61 x 18.43 inches)		110 x 65 x 420 mm (4.33 x 2.56 x 16.54 inches)	
Weight	3kg max.		5kg max.	

## Option

**R : Remote ON/OFF. Reversed Logic.**

**G : Low Leakage Current**

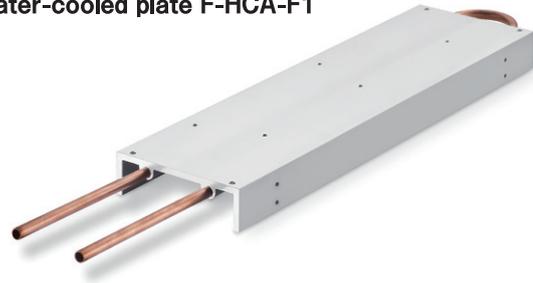
**T1: Another Output Terminal Shape (No Step Type)**



**I4: MOD BUS Communication**

## Option part of HCA series

**Water-cooled plate F-HCA-F1**



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