

## 200-500A three phase solid state relays

GTH series high current three phase Solid State Relays is used three phase loads, SCR Output. GTH series is Dual SCR Power Hybrid technology provides highly efficient thermal management for greatly increased cyclic life.

### Feature

Rated operational current  
3X200, 3X300, 3X400, 3x500Amps.  
High voltage (1400 Vpk) versions  
for 660 Vrms service.  
Input Voltage 4-32 Vdc, 160-240Vac  
2500 Vrms Optical Isolation. (input/output)  
LED indication for control input.

Model	Load voltage	Load current	Control voltage	Status	Insulation voltage
GTH20044ZD3	40-440VAC	200A	4-32VDC	LED	≥2500VAC
GTH30044ZD3	40-440VAC	300A	4-32VDC	LED	≥2500VAC
GTH40044ZD3	40-440VAC	400A	4-32VDC	LED	≥2500VAC
GTH50044ZD3	40-440VAC	500A	4-32VDC	LED	≥2500VAC
GTH20044ZA2	40-440VAC	200A	160-240VAC	LED	≥2500VAC
GTH30044ZA2	40-440VAC	300A	160-240VAC	LED	≥2500VAC
GTH40044ZA2	40-440VAC	400A	160-240VAC	LED	≥2500VAC
GTH50044ZA2	40-440VAC	500A	160-240VAC	LED	≥2500VAC
GTH20066ZD3	40-660VAC	200A	4-32VDC	LED	≥2500VAC
GTH30066ZD3	40-660VAC	300A	4-32VDC	LED	≥2500VAC
GTH40066ZD3	40-660VAC	400A	4-32VDC	LED	≥2500VAC
GTH50066ZD3	40-660VAC	500A	4-32VDC	LED	≥2500VAC
GTH20066ZA2	40-660VAC	200A	160-240VAC	LED	≥2500VAC
GTH30066ZA2	40-660VAC	300A	160-240VAC	LED	≥2500VAC
GTH40066ZA2	40-660VAC	400A	160-240VAC	LED	≥2500VAC
GTH50066ZA2	40-660VAC	500A	160-240VAC	LED	≥2500VAC

Dimension: 120x84x56mm

Installation size: 50x106mm M4/M5 screw. Output terminals with RC absorption.

Parameter	DC to AC	AC to AC
Control Voltage	4~32 VDC	160~240 VAC
Control Current	≤25 mA	≤25 mA
Start Current	≥ 8 mA	≥ 8 mA
Off Voltage	≤1.5 VDC	≤ 30 VAC
On/Off Time	≤10 mS	≤10 mS
Load Voltage	24~440VAC×3; 24~660VAC×3	24~440VAC×3; 24~660VAC×3
Peak Current	200A to 500A	200A to 500A
On-State Voltage Drop	≤1.5 V	≤1.8 V
Off-State Voltage	≥ 800V	≥ 1500V
Isolation Voltage	≥ 2500 V	≥ 2500 V
Insulation Voltage	≥ 2500 V	≥ 2500 V
Insulation Resistance	≥ 100 MΩ	≥ 100 MΩ
Operating Temperature	-25 ~ 75 °C	-25 ~ 75 °C
Power Frequency	50/60 HZ	50/60 HZ
Cooling Conditions	≥20A with heatsink; ≥30A with additional fan cooling	≥20A with heatsink; ≥30A with additional fan cooling
Load Current Safety Factor	Resistive load: 2-3 times; Inductive load: 3-4 times	Resistive load: 2-3 times; Inductive load: 3-4 times
Dimensions	120×84×56mm	120×84×56mm

## Diagram



