**AC-DC Power Supplies Enclosed type**

# STA5000T

STA 5000 T -☐ ___ ___
① ② ③ ④

①Series name
②Output wattage
③Triple input phase
④Optional ＊1
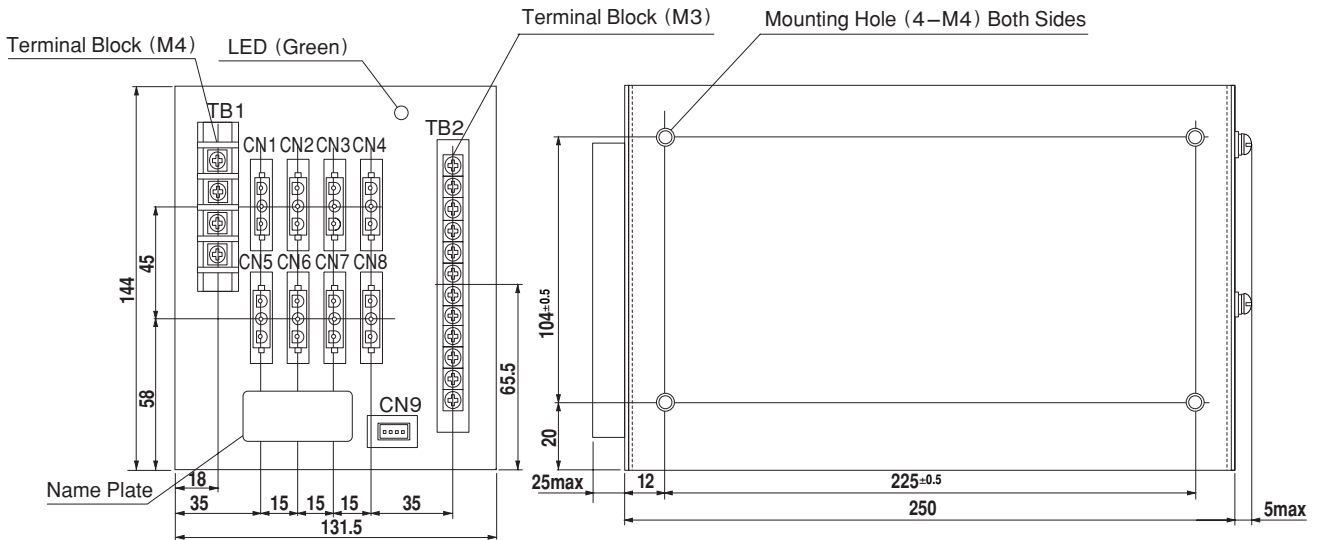  R :with Sequence unit

c**UL**us ⚠ TÜV Rheinland CE

## RoHS



STA
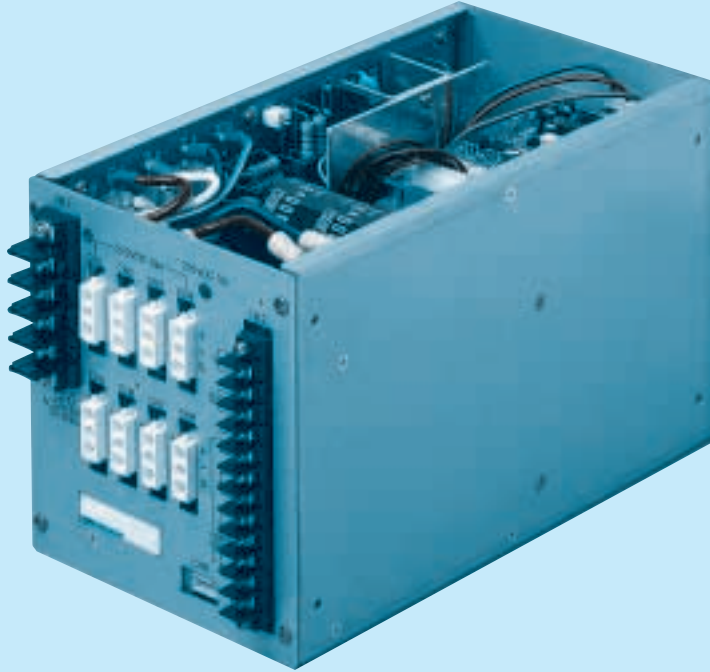
＊For connection of loads except the series DBS, please contact Cosel development department.
＊Never make a short-circuit between the output pins. It may severely damage the unit.

## SPECIFICATIONS

| | MODEL | STA5000T |
|---|---|---|
| **INPUT** | VOLTAGE[V] | AC170 - 264 3φ （Rated input voltage : AC200V） |
| | FREQUENCY[Hz] | 50/60, (47 - 63) |
| | INRUSH CURRENT[A] ACIN 200V | 50typ |
| | POWER FACTOR | 0.9typ (ACIN 200V) |
| | EFFICIENCY[%] | 97.5typ (ACIN 200V) |
| **OUTPUT** | WATTAGE[W] | 5,000 |
| | OUTPUT VOLTAGE[V] | DC230 - 370 (Changes depending on the input voltage) |
| **PROTECTION CIRCUIT AND OTHERS** | OPERATING INDICATION | LED (Green) |
| | OVERCURRENT PROTECTION | By means of fuse |
| | THERMAL PROTECTION | Provided |
| | REMOTE ON/OFF OUTPUT | Provided (Isolated from output) |
| | ALARM OUTPUT | Provided (Isolated from output) |
| | SYSTEM ON/OFF INPUT | Provided (Isolated from output，optional) |
| | REMOTE SIGNAL ON/OFF OUTPUT | Provided (Isolated from output，optional) |
| **ISOLATION** | INPUT-FG | AC2,000V 1minute，Cutoff current = 10mA，DC500V 50MΩmin (At Room Temperature) |
| | INPUT-RS ON/OFF, ALM | AC2,000V 1minute，Cutoff current=10mA，DC500V 50MΩmin (At Room Temperature) |
| | RS ON/OFF, ALM-FG | AC500V 1minute，Cutoff current=50mA，DC500V 50MΩmin (At Room Temperature) |
| **ENVIRONMENT** | OPERATING TEMP | -10 - 50℃ Forced air |
| | STORAGE TEMP | -20 - 75℃ |
| | VIBRATION | 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis |
| | IMPACT | 196.1m/s² (20G), 11ms, once each X, Y and Z axis |
| **SAFETY AND NOISE REGULATIONS** | AGENCY APPROVALS | UL60950-1, C-UL (CSA60950-1), EN60950-1 |
| | CONDUCTED NOISE | Complies with FCC-B, CISPR22-classB, EN55022-B |

＊1 Please contact us about safety approvals for the model with option.

## External view

Terminal Block (M4)
LED (Green)
Terminal Block (M3)
Mounting Hole (4−M4) Both Sides

TB1
CN1 CN2 CN3 CN4
TB2
CN5 CN6 CN7 CN8
CN9
Name Plate

144
45
58
104±0.5
65.5
20

18
35
15 15 15
35
131.5
25max
12
225±0.5
250
5max

※Mounting torque:
1.5N·m (16kgf·cm) max

※Weight:5kg or less
※Tolerance ±1
※Dimensions in mm

TB1
TYPE:F2331B 4P

| pin no. | Function |
|---|---|
| 1 | AC (R) |
| 2 | AC (S) |
| 3 | AC (T) |
| 4 | FG |

CN1 − CN8
TYPE:350825−1

| pin no. | Function |
|---|---|
| 1 | DC (+V) |
| 2 | DC (−V) |
| 3 | FG |

Mating Connector:350766−1
Terminal:350547−1
or 350552−1

CN9
TYPE:B4B−XH

| pin no. | Function |
|---|---|
| 1 | REMOTE ON/OFF (+) |
| 2 | REMOTE ON/OFF (−) |
| 3 | AL OUT (+) |
| 4 | AL OUT (−) |

Mating Connector:XHP−4
Terminal:SXH−001T−P0.6
or SXH−002T−P0.6

TB2 (STA5000T−R)
TYPE:F2361A−13.2L−12P

| pin no. | Function |
|---|---|
| 1 | ALM (+) |
| 2 | ALM (−) |
| 3 | SYSTEM ON/OFF (+) |
| 4 | SYSTEM ON/OFF (−) |
| 5 | R/S1 ON/OFF (+) |
| 6 | R/S1 ON/OFF (−) |
| 7 | R/S2 ON/OFF (+) |
| 8 | R/S2 ON/OFF (−) |
| 9 | R/S3 ON/OFF (+) |
| 10 | R/S3 ON/OFF (−) |
| 11 | R/S4 ON/OFF (+) |
| 12 | R/S4 ON/OFF (−) |

※Keep drawing current per pin bellow 8A of CN1 − CN8.

## Performance data

### ■SYSTEM CONCEPT



– Sample system configuration –

AC IN
3φ
200V

AC (R)
AC (S) STA5000T
AC (T) REMOTE ON/OFF (+)
REMOTE ON/OFF (−)

+V
−V

+VIN
RC1
−VIN
AUX RC3 RC2 −S
DBS
+S
+VOUT
−VOUT
−S
Load

+VIN
RC1
−VIN
AUX RC3 RC2 −S
DBS
+S
+VOUT
−VOUT
−S
Load