

# GWS 500 SERIES

AC/DC Power Supplies Single Output: 500 Watts



Standard- GWS500



19in Rack Mount option



Alternative case

## Specifications

Input Voltage	85 ~ 264VAC ( 120 ~ 370VDC )
Input Current	5.5 ~ 2.7A @ 115 ~ 230VAC
Power Factor	0.98~ 0.95 @ 115 ~ 230VAC
Leakage Current	<0.75mA at 240vac
Standby Input Power	<0.5 watts Standby output voltage 5V 300mA
Harmonics	EN61000-3-2
Output Power	500 watts
Efficiency	90%
Output Voltage	See table
Ripple & Noise	Model dependent: 15 ~480mV ( 12 ~ 48V )
Line Regulation	Model dependent: 48 ~192mV ( 12V ~ 48V )
Load Regulation	Model dependent: 96 ~384mV ( 12V ~ 48V )
Temp Co-efficient	0.02% per °C
Overload Protection	12V models, Hiccup 24-48V models Constant current limiting. With auto recovery
Overvoltage Protection	OVP will shutdown unit. Recycle AC power after 30 seconds to restart.
Over Temp. Protection	OTP will shutdown unit. Recycle AC power after 30 seconds to restart
Hold-Up time	Typically 16ms
Remote ON/OFF	Active Low
Monitor Signal	DC OK ( Open collector – Active Low )
Parallel Operation	NO
Operating Temp.	-25°C to +70°C ( Refer to Manual )
Humidity	30 ~ 90% RH no dewdrop
Cooling	Internal fan
Isolation	Input – Output / Case: 4.25Kvdc / 2.25kVDC Output – Case: 500VDC
Safety	Approvals: UL60950, EN60950-1.
EMI	EN55022 – B
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11.
Dimensions	238 x 105 x 41mm 1020g ( Includes terminals)

## Features

- ◆ Universal input 85 - 265VAC
- ◆ 500 watts output power, Low profile 41mm / 1U
- ◆ Output voltage adjustment ( Manual & Programmable )
- ◆ Short circuit and OVP protection
- ◆ Power Factor & Harmonic correction 0.95 / EN61000-3-2
- ◆ EMC EN55022-B, Immunity to EN61000-4
- ◆ International safety approvals EN60950, UL60950
- ◆ High Efficiency 90%
- ◆ Peak Power 120% for 24V & 36V models

**Instruction Manual and application notes available from our website.**

## Description

The **GWS500** series power supply is a new generation design, aimed at providing a “High Quality” solution for a variety of industrial applications.

It provides 500 watts with efficiency of 90%, it has the ability to outperform other power supplies in the most demanding of applications.

The low height of 41mm allows for 1U x 19in Rack mount applications and output voltage programming, further enhances the GWS500's standing in the market.

A 5V 300mA standby voltage is standard as is Remote ON/OFF and DC Ok Signals.

## Options

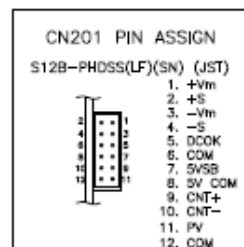
1U x 19in Rack mounting

Model	Output V A	Voltage Range	Power W
<b>GWS500-12</b>	12V 42A	10.8~13.2V	504W
<b>GWS500-24</b>	24V 21A	22~28.8V	504W
<b>GWS500-36</b>	36V 14A	32~40V	504W
<b>GWS500-48</b>	48V 10.5A	42~57.6V	504W

### Note:

- 24 & 36V models have peak output power 600W refer to manual.
- Output voltage programming via external voltage, ( 60~120% ), refer to manual for details.

# SIGNAL CONNECTOR INFORMATION



## ==SIGNAL CONNECTOR USED==

PART DESCRIPTION	PART NAME	MANUFACT
PIN HEADER	S12B-PH05S(LF)(SN)	JST

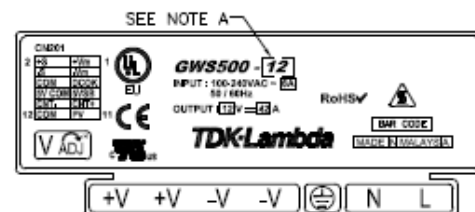
## --MATCHING HOUSINGS, PIN & TOOL--

PART DESCRIPTION	PART NAME	MANUFACT
SOCKET HOUSING	PHDR-12VS	JST
TERMINAL PINS	SPHD-002T-P0.5(AWG28~24) SPHD-001T-P0.5(AWG26~22)	JST
HAND CRIMPING TOOL	YRS-620(SPHD-002T-P0.5) YC-610R(SPHD-001T-P0.5)	JST

## --ACCESSORIES--

- \* SHORT PIECE -----1  
SHORTING +Vm --- +S, -Vm --- -S, CNT+ --- CNT-  
(ATTACHED ON CN201 AT SHIPMENT)
- \* COVER FOR BARRIER TERMINAL STRIP -----1  
(ATTACHED ON TERMINAL AT SHIPMENT)

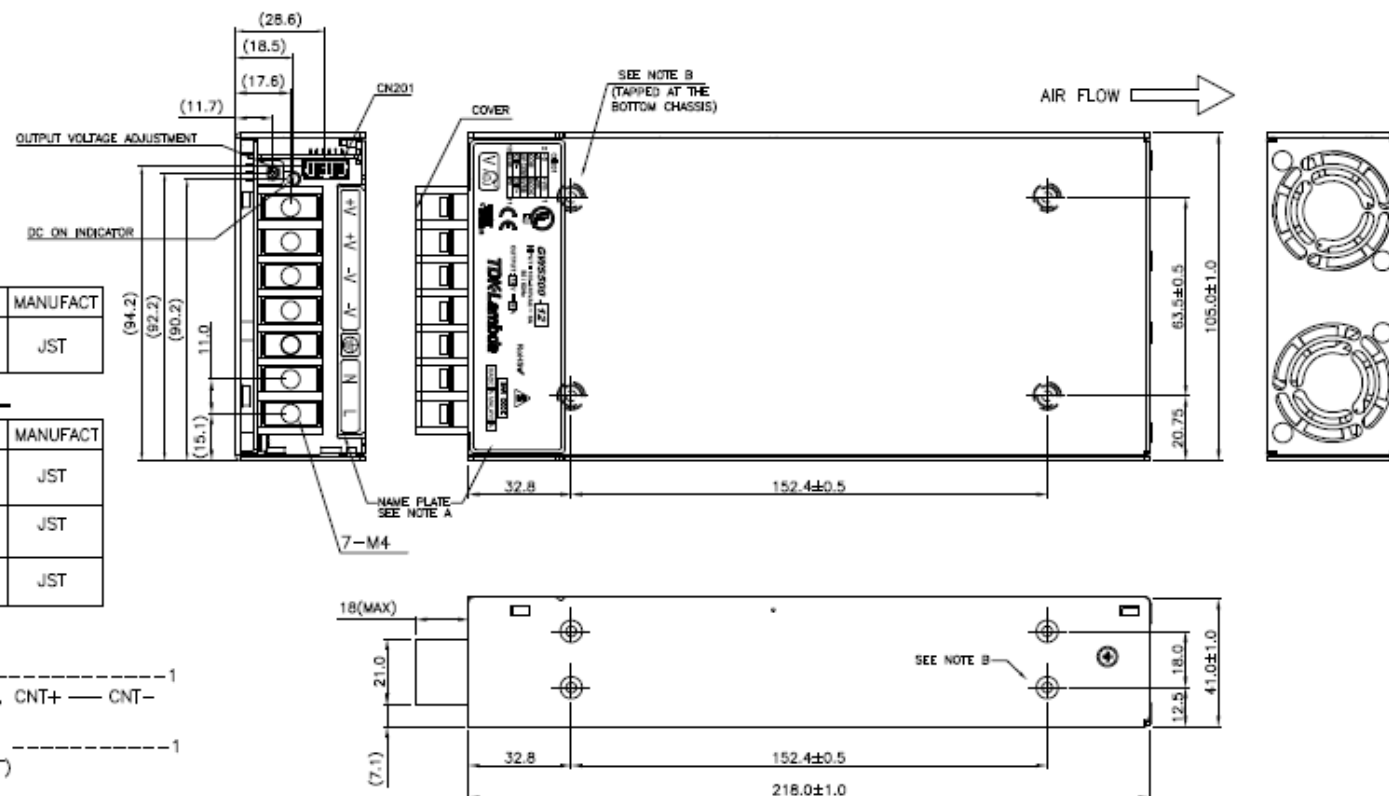
## NAME PLATE :



SCALE 1 : 1

## NOTES

- A. MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT & COUNTRY OF MANUFACTURE ARE SHOWN IN ACCORDANCE WITH THE SPECIFICATION.
- B. M4 TAPPED HOLES (8) FOR CUSTOMER CHASSIS MOUNTING.  
(SCREW PENETRATION DEPTH 5mm MAX.)



(unit : mm)

MODEL	GWS500
TDK-Lambda	

PA590-02-01