

GWS250 SERIES

AC / DC Single Output: 250 Watts



Standard Model



19in Rack Mount option



Alternative case

Specifications

Input Voltage	85 ~ 264VAC (120 ~ 370VDC)
Input Current	3.0 ~ 1.4A @ 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	250 watts
Efficiency	Model dependent: 92-93%
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	Convection cooled
Isolation	Input – Output / Case: 3000VAC / 2000VAC Output – Case: 500VAC
Safety	Approvals: UL60950, EN60950-1, EN50178
EMI	EN55011 / EN55022 – B
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11.
Dimensions	213 x 105 x 41mm 850g (Includes terminals)

Features

- Universal input 85 - 265VAC
- Convection cooled (no fans)
- 250 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 92.7%
- Suitable for use as Battery Charger (option)
- Peak Power 120% for 24V & 36V models

Instruction Manual and application notes available from our website.

Description

The **GWS250** series power supply is a new generation design, aimed at providing a “High Quality” solution for a variety of industrial applications.

It provides 250 watts without any fan cooling and with efficiency of 92%, 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 GWS250's standing in the market.

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

Options

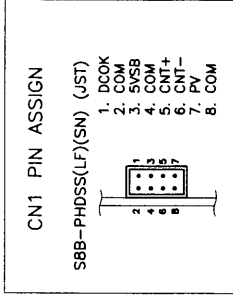
/P	Output power 350 watts, with system supplied air flow of 20CFM (refer to manual)
/T	Overtemperature auto recovery after unit cools down
/RL	Remote ON/FF (Reverse Logic- Active High)
/BAT	Battery Charging model for 24V or 48V systems

Model	Output V	Output A	Voltage Range	Power W
GWS250-12	12V	21A	10.8~13.2V	252W
GWS250-24	24V	10.5A	22~28.8V	252W
GWS250-36	36V	8.4A	32~40V	252W
GWS250-48	48V	5.3A	42~57.6V	252W

Note:

- 24 & 36V models have peak output power 300W 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	S8B-PHDSS(LF)(SN) (CN1)	JST

MATCHING HOUSINGS, PIN & TOOL

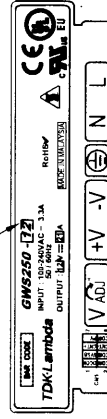
PART DESCRIPTION	PART NAME	MANUFACT
SOCKET HOUSING	PHDR-BVS (CN1)	JST
TERMINAL PINS	SPHD-002T-P0.5 OR SPHD-001T-P0.5	JST
HAND CRIMPING TOOL	YRS-620(SPHD-002T-P0.5) YC-610R(SPHD-001T-P0.5)	JST

==ACCESSORIES==

* SHORT PIECE --- SHORTING CNT+ -->CNT- (ATTACHED ON CN1 AT SHIPMENT)

NAME PLATE

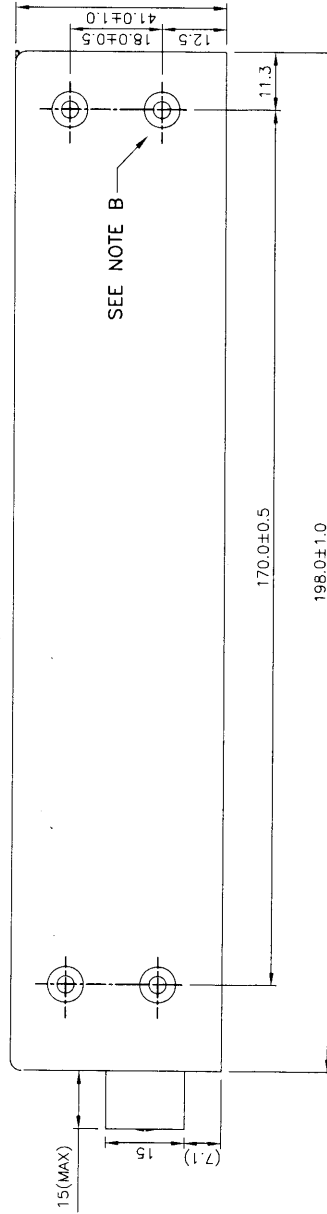
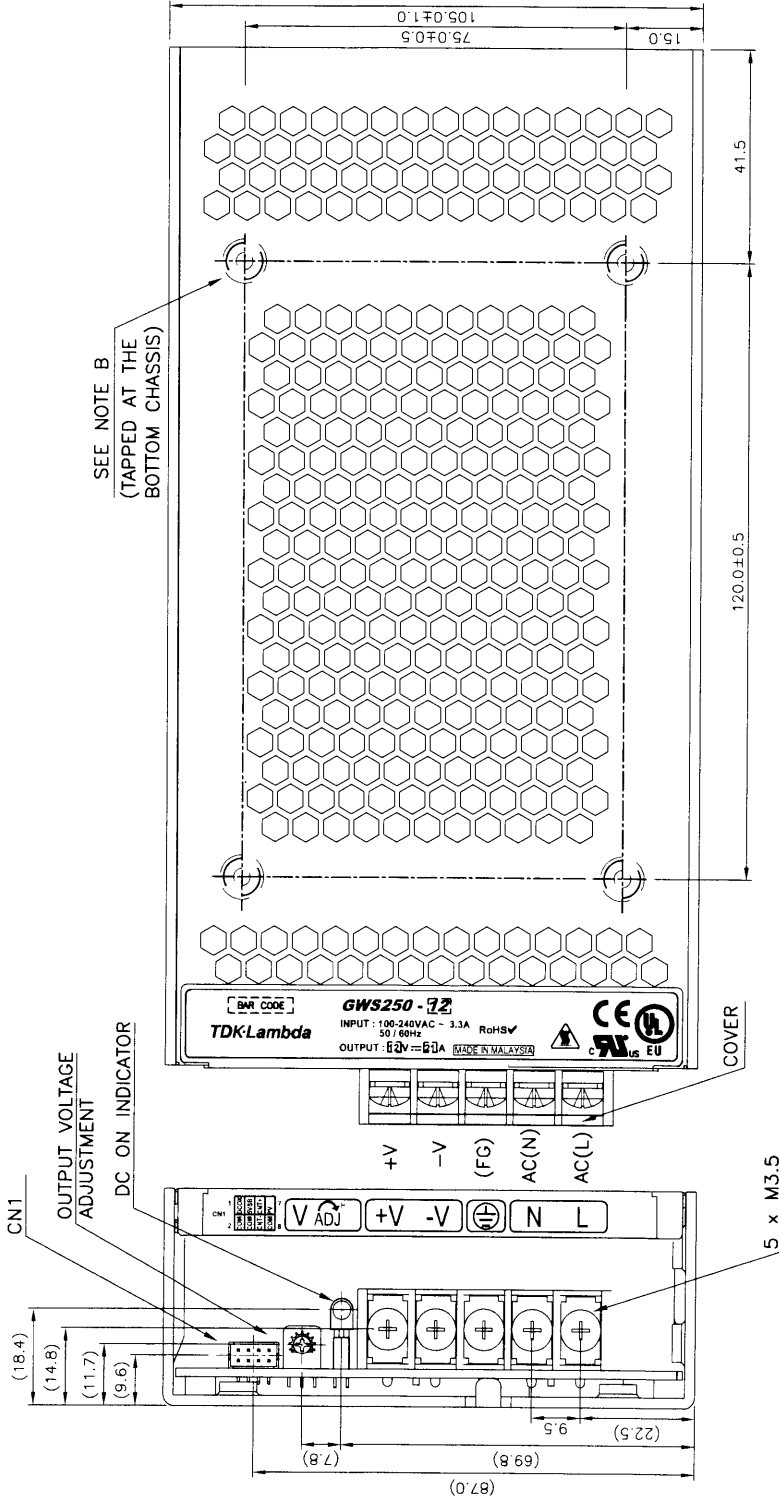
SEE NOTE A



(unit : mm)

MODEL	GWS250
TDK-Lambda	

PA589-02-01B



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 , EMBOSSED & COUNTERSUNK HOLES (B) FOR CUSTOMER CHASSIS MOUNTING. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 5mm.