General **Specifications**

Model SDND Power Supply Unit

YEW SERIES 80

GS 01B04T04-E

The SDND Power Supply Unit provides stabilized 25 V DC power for YEWSERIES 80 Instruments.

- Compact and lightweight, can be mounted in a rack with other rack mount equipments.
- •Can be used in parallel operation.

■ STANDARD SPECIFICATIONS

Input/Output Signals

Power supply: 80 to 138 V AC or 160 to 264 V AC, 50/60 Hz ± 3Hz

Normal output voltage: 25 V DC / 27.3 V DC (Switched from the front panel)

Rated output variable range:

When the switch position is 25 V DC;

23 to 26 V DC (for instrument drive)

When the switch position is 27.3 V DC;

Fixed to 27.3 V DC (for instrument drive or battery charge)

Ripple voltage: 150 mV p-p. Spike voltage: 250 mV p-p.

Rated continuous output current: 15 A.

Over-current protection: Fold-back circuit operates at

17 A ± 1A.

Output current/voltage indicator: Normally current

indication, scale 0 to 20 A

Voltage indication only when push-button switch is operated, scale 0 to 35 V

Grade: 2.5

Parallel operation: Up to 4 units can be operated in parallel

Alarm: Alarms are issued in the event of power failure or SDND malfunction.

Alarm termina SDND status	J-K	K-M
AC input power failure	Closed	Open
AC input switch OFF (Note 1)	Closed	Open
SDND abnormal (Note 2)	Closed	Open
Normal operation	Open	Closed

Note 1: Automatically trips when input current increases due to SDND abnormality.

Note 2: Abnormality means output voltage drop (22 ± 1 V), output overvoltage (30 ± 2 V), or circuit error.
The output is shut down except for output voltage drop.

Alarm output: Output in 2 to 5 seconds after abnormality occurs

Single-pole double-throw relay contact

Alarm output contact Rating:

115 V AC / 1 A (resistive load) 30 V DC / 1 A (resistive load)



Mounting and Appearance

Mounting method: Mounted on an indoor rack Wiring method:

Power and ground wiring, also output wiring: ISO M4 size (4 mm) screws on terminal

External dimensions: 180 (H) × 298 (W) × 300 (D) mm

(D: depth behind panel)

Case material: Steel plate Weight: 7 kg or less

Standard Performance

Output constant voltage accuracy: ± 1% of output constant voltage

Maximum power consumption: 600 VA Inrush current: 50 A max. (80 to 138 V AC) 90 A max. (160 to 264 V AC)

Insulation resistance: Between input power terminal

and case: 20 M Ω / 500 V DC

Between output terminal and case: 10 $M\Omega$

/ 500 V DC

Withstanding voltage: Between input power terminal and case: 1500 V AC for 1 minute

Between output terminal and case: 1000 V AC for 1 minute

Amount of variation in output voltage:

Effect of power supply voltage fluctuation: ± 2% (full input voltage range)

Effect of frequency variation:

± 0.2% (50 / 60 Hz ± 3 Hz) Effect of load fluctuation: ± 2% (0.5 to 15 A) Effect of ambient temperature: ± 2% (0 to 50°C) Transient characteristics: ± 5%, response time 5 ms (sudden load change of 50 to 100%)



Normal Operating Conditions

Ambient temperature: 0 to 50°C. Ambient humidity: 5 to 85% RH (non-condensing).

Ambient condition: Avoid installation in such

environments as corrosive gas like sulfide hydrogen, dust, sea breeze and direct

sunlight.

Continuous vibration: No abnormality in frequency of 10 to 55 Hz (1 minute) and acceleration of 14.7 m/s² (1.5 G) for 2 hours each in the X, Y, and Z directions.

No abnormality at 49 m/s² (5 G) Impact:

Installation altitude: 1000 m or less above sea level

■ MODEL AND SUFFIX CODES

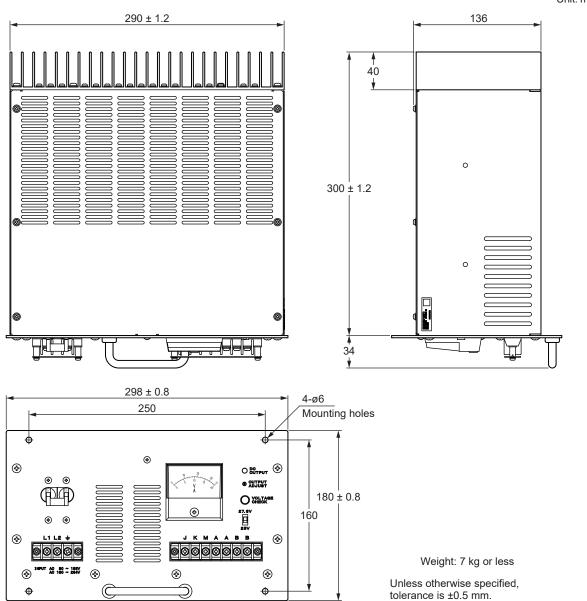
Model	Suffix Codes			es	Description
SDND				Power Supply Unit	
	-0				Always -0
Power St	upply	pply 5			80 to 138 V AC / 160 to 250 V AC, 50/60 Hz ± 3Hz
			0		Always 0
Style Cod	de			*F	Style F

■ TERMINAL CONNECTIONS

Terminal Designation	Description
Α	+ DC output
В	_ DC output
J	NO Abnormal, power failure Closed \
K	COM Alarm output
M	NC Normal operation Closed
L1	AC power supply
L2	AC power supply
느	Ground

■ EXTERNAL DIMENSIONS

Unit: mm



■ ORDERING INSTRUCTIONS

When ordering, specify the model and suffix codes.