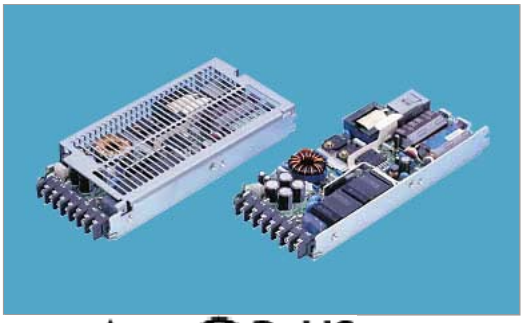
UAW125S



Features

- Autoranging input
- UL recognized, TV approved, CSA certified
- Built-in Inrush Current Protection
- Remote sensing
- Parallel and Master-Slave operation
- Thin profile
- Built-in Over Current Protection
- Built-in Over Voltage Protection
- RoHS Compliant

Safety Agency Approvals

UL1950, CSA C22.2 No.234, EN60950, VDE0160

EMI Compliance

- FCC-B
- CISPR22-B
- EN55022-B
- VCCI-B

3 year warranty(refer to Instruction Manual)

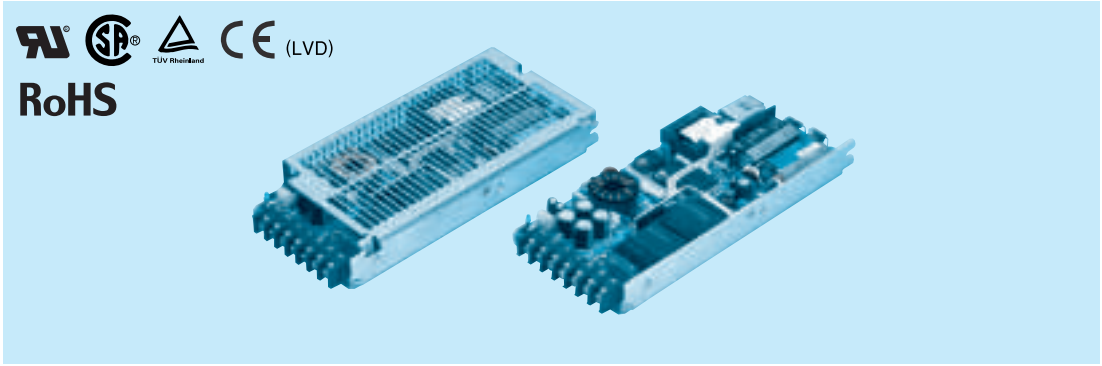
Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
UAW125S-3	AC 85 - 264	75	3V 25A
UAW125S-5	AC 85 - 264	125	5V 25A
UAW125S-12	AC 85 - 264	126	12V 10.5A
UAW125S-24	AC 85 - 264	124.8	24V 5.2A
UAW125S-48	AC 85 - 264	124.8	48V 2.6A

COSEL **Unit type**

UAW125S

Ordering information

UA	W	125	S	-5	-□
①	②	③	④	⑤	⑥



①Series name
②Autoranging input
③Output wattage
④Single output
⑤Output voltage
⑥Optional
C :with Coating
G :Low leakage current
N :with Cover

UAW

Please refer to derating curve, because the rated load current depends on cooling method that is convention cooling or forced air.

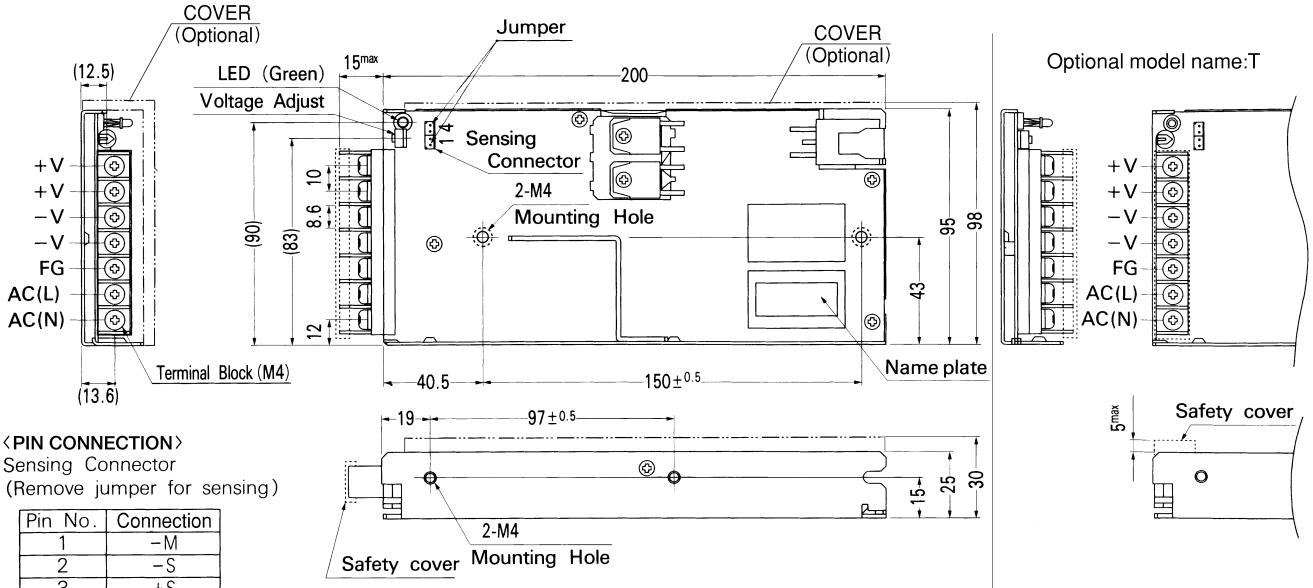
MODEL	UAW125S-3	UAW125S-5	UAW125S-12	UAW125S-24	UAW125S-48
MAX OUTPUT WATTAGE[W]	75	125	126	124.8	124.8
DC OUTPUT	3V 25A	5V 25A	12V 10.5A	24V 5.2A	48V 2.6A

SPECIFICATIONS

	MODEL		UAW125S-3	UAW125S-5	UAW125S-12	UAW125S-24	UAW125S-48
INPUT	VOLTAGE[V]		AC85 - 132 / 170 - 264 1φ (Auto-selectable)				
	CURRENT[A]	ACIN 100V	2.8typ (Io=100%)				
		ACIN 200V	1.5typ (Io=100%)				
	FREQUENCY[Hz]		50/60 (47 - 63)				
	EFFICIENCY[%]		72typ	78typ	82typ	85typ	85typ
	INRUSH CURRENT[A]	ACIN 100V	30typ (Io=100%) (At cold start)				
		ACIN 200V	60typ (Io=100%) (At cold start)				
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to UL, CSA and VDE)				
OUTPUT	VOLTAGE[V]		3	5	12	24	48
	CURRENT[A]		25	25	10.5	5.2	2.6
	LINE REGULATION[mV]		20max	20max	48max	96max	192max
	LOAD REGULATION[mV]		40max	40max	100max	150max	300max
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	150max
		-10 - 0℃ *1	100max	100max	150max	150max	200max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	200max
		-10 - 0℃ *1	180max	180max	200max	200max	250max
	TEMPERATURE REGULATION[mV]		40max	50max	120max	240max	480max
	DRIFT[mV]	*2	12max	20max	48max	96max	192max
	START-UP TIME[ms]		500max (ACIN 85/170V, Io=100%)				
	HOLD-UP TIME[ms]		10typ (ACIN 85/170V, Io=100%) 20typ (ACIN 100/200V, Io=100%)				
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	+10%, -5%			
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically				
	OVERVOLTAGE PROTECTION		4.00 - 5.25V	Works at 115 - 140% of rating			
	OPERATING INDICATION		LED (Green)				
	REMOTE SENSING		Provided				
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)				
	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)				
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)				
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +55℃, 10 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max				
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 10 - 90%RH (Non condensing), 9,000m (30,000feet) max				
	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, CSA C22.2 No.234, EN60950-1, EN50178 Complies with IEC60950-1				
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B				
OTHERS	CASE SIZE/WEIGHT		95×25×200mm (without terminal block) (W×H×D) / 550g max (without cover)				
	COOLING METHOD		Convection/Forced air				

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN:RM101).
*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.

External view



〈PIN CONNECTION〉
Sensing Connector
(Remove jumper for sensing)

Pin No.	Connection
1	−M
2	−S
3	+S
4	+M

Horizontal type

I/O Connector	Mating Connector	Terminal
B4B−XH−A	XHP−4	Chain: SXH−001T−P0.6 Loose: BXH−001T−P0.6

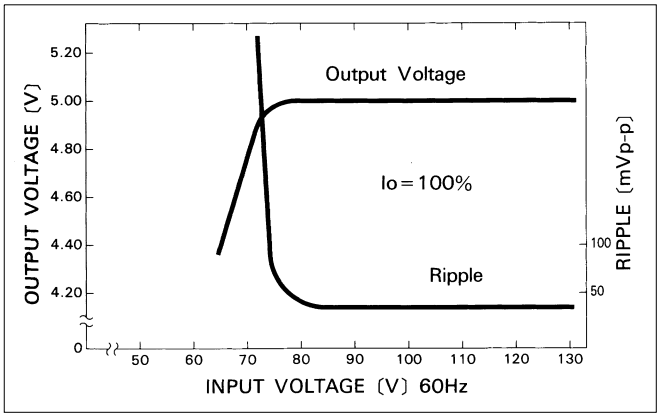
(Mfr.J.S.T.)

※Dimensions with ( ) is for reference
※Dimensions in mm.
※Tolerance : ±1
※Weight : 550g or less (without cover)
※Safety cover attached
※Cover is optional
※Mounting torque:
1.2N·m (12.8kgf·cm) max

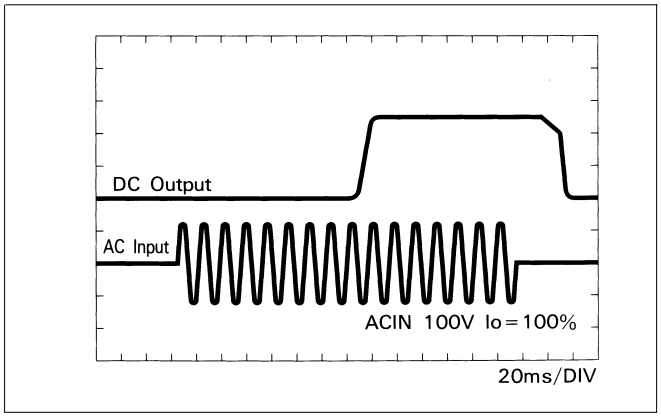
Vertical type

Performance data

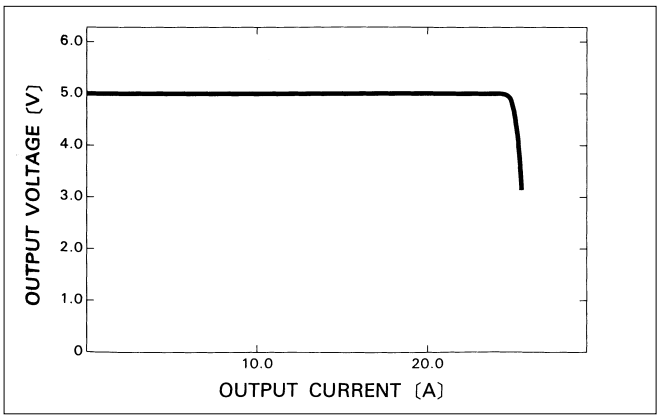
■STATIC CHARACTERISTICS (UAW125S-5)



■RISE TIME & FALL TIME (UAW125S-5)



■OVERCURRENT CHARACTERISTICS (UAW125S-5)



■DERATING CURVE