unitz Series D/E3000



Single-phase Phase Control Type Thyristor feedback control type







E Type

Features

- 1 For stable control of halogen lamp heaters, pure metal heaters, SiC, carbon heaters, etc.
- Suppresses miscontrol problems when transformers are loaded
- 3 Can be used in poor power supply environment such as power supply voltage fluctuation, instantaneous power failure, power surge, square wave, rectangular wave, etc.
- Allowable power supply fluctuation range % Need be set up

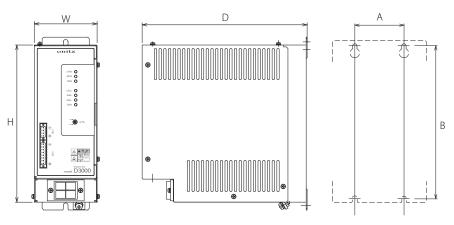
Application

- Use in areas where power supply fluctuations are severe, such as Southeast Asia.
- Adopted in semiconductor devices that require safety, reliability, and stability
- Ideal for near infrared heaters that require stable output performance

Main Specification

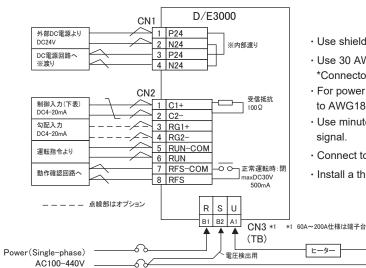
◆Main circuit power	Single Phase AC100 \sim 440V	Usage Voltage AC110-220-440V Factory setting				
◆Control circuit power	Less than DC24V±10%	Consumption current 30A \sim 120A Spec : 100mA 200A Spec : 350mA				
◆Power control method	Thyristor AC phase	Type: Voltage feedback				
◆Control input signal	DC4-20mA	Receive resistance 100Ω				
	DC0-5V					
	DC0-10V					
◆Output adjust method	Front POWER VR 0-100%	External remote gain adjustment input / 0-100% (OPTIO N)				
◆Alarm output	Dry contact output	RUN (GATE ON) Signal Input				
◆ Answer back output	Dry contact output RUN: Output during normal operation(OFF when an alarm occurs) wmax DC30V L					
◆ Safety protection function	Alarm action	RUN Stop output				
	VC ` Overcurrent protection	ction Main circuit overcurrent detection action when above130%				
	SAL Equipment abnormality protection	Unit failure detection				
	PAL Power failure protection	Abnormal power supply voltage detection				
	OVH Overheat protection	Device Abnormal temp. detection action when SCR Latest temp.100°C *Action at 80°C when 200A				
	Protective action					
	Output current limit function	When current exceeding the rated current of 110%, the current is automatically controlle				
	Instantaneous power failure protection	If an instantaneous failure occurs, the output is stopped and then automatically started.				
♦ Noise resistance	EMC immunity requirements	• IEC61000-4-3 RF conducted immunity				
		• IEC61000-4-4 Fast transient burst immunity				
		• IEC61000-4-5 Lightning surge immunity				
		• IEC61000-4-11 Voltage dip, instantaneous power failure, voltage fluctuation immunity				
	SEMI requirement conformity	Voltage sag immunity Fail-safe design compliant				
◆ Environmental specifications	RoHS					
◆Withstand voltage /dielectric strength	Between Power - Chassis more than DC500V 100M Ω / Between Power - Chassis AC2500V 1 min					
◆Usage environment	Temp. : $0 \sim 50^\circ$ C (Reduce load current to 85% above 40° C) Humidity : Below90% (non-condensing)					

Dimension



Мо	Mounting screw		
	Α	В	
3030	0	210	M4×2
3060	0	220	M4×2
3120	75	230	M5×4
3200	100	235	M5×4

Connection example



- \cdot Use shielded wires for signal wiring to prevent erroneous control.
- Use 30 AWG power supply wiring(S)with AWG12 to AWG10.
 *Connector connection for 30Atype
- For power supply wiring (S) over 60A specifications, use AWG14 to AWG18.
- Use minute current contact as the contact for the RUN command signal.
- · Connect to fail-safe output with DC30V less than 500mA
- · Install a thyristor breaker / fuse if necessary.

Type/Code List

Code			Specification		Dimension (mm)	Weight		
D3 Constant voltage feedb					AC phase control power regulator			
E3	Const	Constant current feedback type AC phase control power regulator						
Current capacity	03	30A				W80×H200×D210	2.2 kg	
	06	60A				W90×H210×D250	3.2 kg	
	12	120A				W115×H220×D270	4.7 kg	
	20	200A				W150×H227×D285	6.1 kg	
'		1	AC11	AC110V (AC100-120V)				
Power		2	AC22	AC220V (AC200-240V)				
		4	AC440V (AC380-440V)					
-1			-1	DC4-20mA (Receive resistance 100Ω)				
Control input type		-2	-2 DC0-5V					
			-3	DC0-10V				
Option			-R	Remote gain input (External gradient setting) Same as control input type				
				-G	Gradient volume			
				-RG	Select R/G at same time			

 $[\]ensuremath{\mathbb{X}}$ A communication function is available as an option. Please consult us for details.



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