

機上型穩壓器



Top Stabilizer(On-machine)

可放在機器上、不佔空間、整齊美觀

It can be placed on the machine to save space, neat and good looking

- 無碳刷耗材及磨損元件

No carbon brush consumables and wearing components

- 附電磁開關

With magnetic contactor / switch

- 自動巡檢，在故障以前先預警；
以減少機械突然停機所造成的損失

Automatic inspection will actuate an early warning before stabilizer failure to reduce the losses caused by sudden mechanical shutdown

- 安裝實例

Installation examples



- CPL系列 Series

- 全銅線材質

All copper wires



穩壓器放在地面上的缺點：

Disadvantages of stabilizer on the ground:

- ① 佔空間、配線凌亂不美觀且不好整理

More space occupation, the wiring is messy and difficult for sorting

- ② 穩壓器移動有時會導致接線端子鬆動或端子台破裂、造成漏電危險

The movement of the stabilizer may sometimes loosen the wiring terminals or fracture the terminal block to cause a risk of electric leakage

主體結構

Main structure and assembly



安裝實例

Installation examples



CPL機上型與他牌傳統落地型穩壓器差異

The difference between CTM's CPL series Top Stabilizer(On-machine) & Other traditional type Stabilizer

台灣發明專利
I583105號
Taiwan invention patent
No. I583105

項目 Item	類別 Type	CPL機上型穩壓器 CPL Top Stabilizer(On-machine)	他牌傳統型碳刷式穩壓器 Other traditional carbon brush type Stabilizer
穩壓工作範圍 (以220V為例) Voltage working range (EX:220V)		220V±15% → 在187V~253V之間，自動調壓至220V，附 保證書 220V±15% → 187V~253V, automatic voltage regulation to 220V, letter of guarantee attached.	220V±10% → 在198V~242V之間，自動調壓至220V，198V以下及242V以上沒有穩壓功能 220V±10% → 198V~242V, automatic voltage regulation to 220V, voltage regulation function is not available below 198V and above 242V.
電壓顯示 Voltage display		外露式、工業級數位電壓錶， 一目瞭然 Exposed industrial grade digital voltmeter for clear display.	有的用指針，有的用廉價LED管放在裡面 Dial reading or cheap LED tubes inside.
主體結構 Main structure		主體為無碳刷、無接點及無磨損元件的感應式調壓器， 故障點少，故障率低 ，更加堅固耐用 The main structure is carbon brushless, no contacts and no wearing components, with lower failure rate and durable.	碳刷式調整電壓。主體易因碳刷的磨損，導致故障或燒毀，接點多為其缺點。 The main structure is carbon brush. It will failure or burn out due to worn carbon brush, and the disadvantage is too many contacts.
外電電源異常時 A:過高、低壓保護 B:欠相保護 C:瞬停保護 When external power supply is abnormal A: Too high / Too low voltage protection B: Phase failure protection C: Momentary power off protection		以電磁開關切斷電源保護，並有 蜂鳴器 警示 With magnetic contactor/switch, which will cut off the power supply for protection. With buzzer warning	以電磁開關切斷電源保護， 無 蜂鳴器警示 With magnetic contactor/switch, which will cut off the power supply for protection. Without buzzer warning
故障警報 Failure warning		穩壓器故障或遇電力異常、啟動關電保護時， 聲光蜂鳴器 警示。 The sound and light buzzer will warn when the stabilizer failure, abnormal power, and the power-off protection is activated.	無此功能 No such function
旁路開關 Bypass switch		全隔離電源旁路開關 ，穩壓器故障時，可立即切換市電使用，不會延誤機台生產。 Full isolation bypass switch When the stabilizer failure, the mains power supply can be switched to use immediately without delaying the production of the machine.	簡易型開關，當穩壓器零組件有故障，造成迴路中斷時即無法切換市電使用，導致機台停工 Simple type switch When the components of stabilizer failure, the mains power supply cannot be switched to lead to circuit interrupted, and the machine stops working.

●無間斷線性電壓調整Uninterruptable linear voltage regulation

利用感應原理來做電壓調整、無接點，於負載中呈線性升降壓調整，電壓調整中、不會產生雜訊耦合及壓降

Apply the induction principle to regulate the voltage. The contactless configuration will not generate the noise coupling and voltage drop from linearly regulating buck and boost when loading is in process.

技術參數 Specification

型號 Model	CPL 30100	CPL 30150	CPL 30200	CPL 30250	CPL 30300	CPL 30450
容量 Capacity	10KVA	15KVA	20KVA	25KVA	30KVA	45KVA
輸入電壓範圍 Input Voltage Range	3 ϕ 220V or 3 ϕ 380V, $\pm$ 15%					
精度&頻率 Accuracy & Frequency	$\pm$ 1~2%, 50/60Hz					
超載能力 Overload capacity	額定負載、1.5倍10秒、額定負載3倍5秒 Rated load 1.5 times 10 seconds / Rated load 3 times 5 seconds					
絕緣等級 Insulation class	銅導體F級(155°C) Copper conductor class F (155°C)					
適用溫度 Temperature	-10°C~+40°C					
適用濕度 Humidity	0~95% 非凝結狀態 non-condensing					
異常檢測 Abnormal detection	異常預警(註一)、超溫警示(註二)等警報及手動升降壓功能 Abnormal warning (Note 1), over-temperature warning (Note 2), other alarms and manual buck-boost function					
尺寸 (mm) Dimensions	320x520x300			360x610x340		400x650x390
整機重量 Weight	41KG	46KG	53KG	68KG	73KG	105KG

(註一)異常預警：當穩壓器輸出電壓 $\geq \pm 3\% \sim 7\%$ 且持續5秒以上，則判定為異常狀況將出現警示，但仍可繼續提供機器使用，但須聯絡維修。

(Note 1) Abnormal Warning: When the output voltage $\geq \pm 3\% \sim 7\%$ and continued more than 5 seconds will be regarded as the abnormal situation, but the machine operation is still available, and maintenance is needed.

(註二)超溫警示：當穩壓器內部線圈溫度超過150°C時，線圈過溫燈會亮起，此時需關掉機器或降低負載，並連絡維修。

(Note 2) Over-temp Warning: When the internal coil over 150°C, the over-temperature warning light will on, then it needs to power off the machine or reduce the load, and maintenance is needed.



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