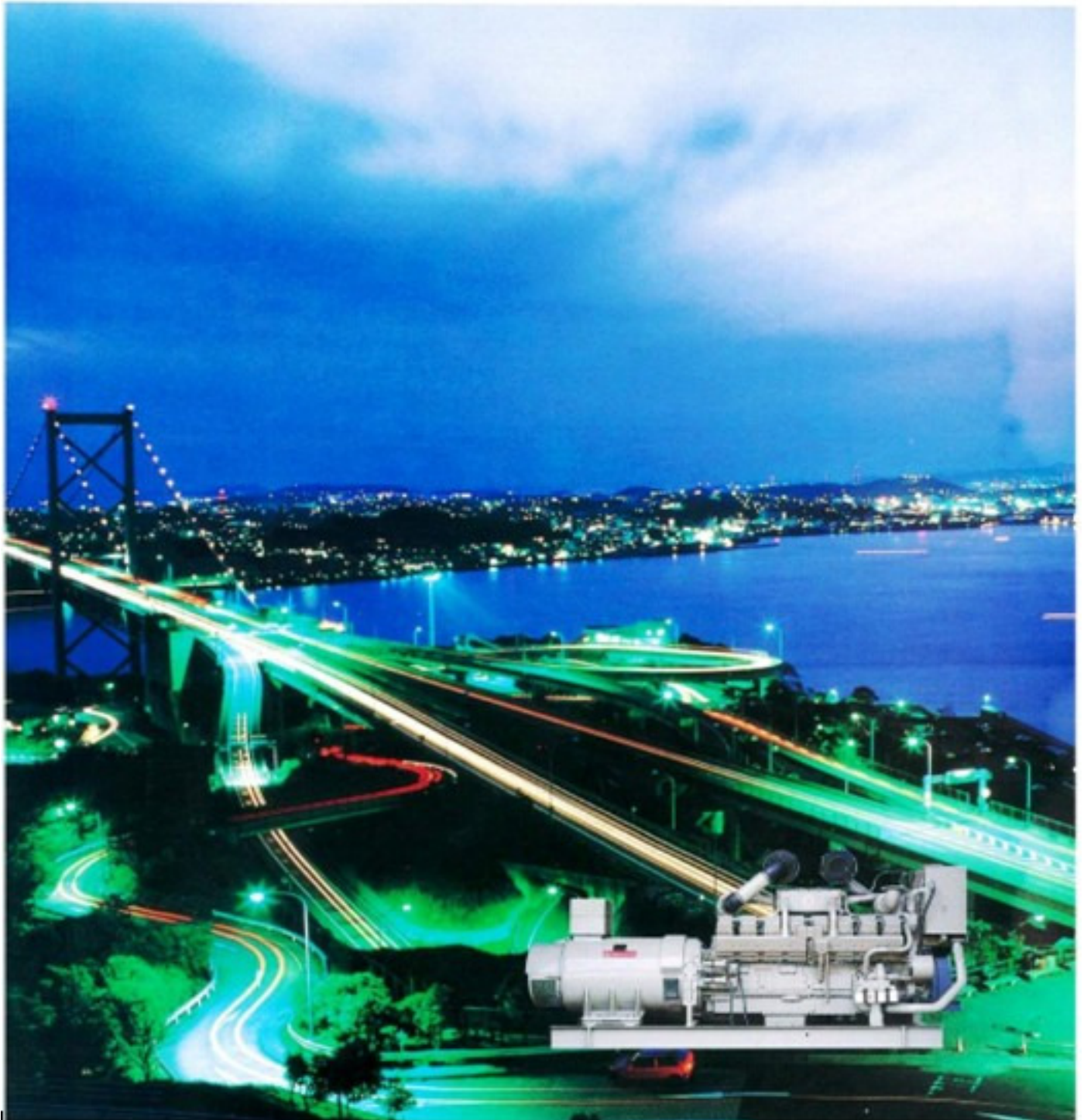




大同柴油發電機

TPU-Series 25KVA~2500KVA



About TATUNG

關於大同

大同公司創立於民國 7 年，以營造業起家，秉持信守對品質的堅持及顧客的服務，奠定公司穩固的基礎。近九十年的經營歲月，緊貼國家社會的發展與世界產業局勢的變遷而不斷創新，逐步發展成為今日涵蓋 3C、家電、重電、電線電纜四大事業部的主體；特別在 3C 事業方面，更規劃出高度國際化的「產品整合服務(IPS)」，提供全球客戶優異的產品研發製造、完善的物流體系、快優的服務網絡。

本業之外，大同公司更將觸角延伸至各事業上中下游，透過產業垂直整合與水平互補的策略運作，提升國際市場競爭力。目前計有光電、能源、通訊、系統整合服務、關鍵組件、生技醫療、化工、機械設備、工業系統、資產開發、物流及文化事業，與本業共塑大同集團，並建立涵蓋歐洲、美加、中國大陸、東南亞等全球運籌體系之據點。

Company Profile

Founded in 1918, Tatung Company is a worldwide leader in the design and manufacturing of digital consumer products, including LCD TVs, network-connected devices and home appliances. Tatung also provides system integration service. As a diversified company, Tatung has well engaged in the heavy industrial businesses such as wire & cable and industrial products like optical fiber cables, gas insulated switchgears, motors, generators, and transformers.

By capitalizing on the advantages of vertical integration, Tatung makes full use of the supply of key components such as flat-panel displays and digital tuners from its many subsidiaries located across the globe. In order to sustain strong, long-term growth, Tatung focuses particularly on the development of advanced technologies and global network of operations. With its overseas branches expanding into 12 countries, Tatung is in a solid position to deliver products more efficiently and render customer services more effectively. Monitoring its global operations from the Taipei headquarters, Tatung offers customers tremendous advantages of cost, speed, and seamless backend support in order to stay ahead in today's dynamic business world. Tatung specializes in the ODM/OEM business and serves branded customers on a global basis.



◎ 機組簡介 Generator Set Brief Introduction

- 大同TPU柴油引擎發電機組為高品質之交流發電機，配合世界名廠柴油引擎組合而成，適用於任何場所。
Tatung TPU diesel engine generator set, composed of high quality alternator and worldwide famous brand of engine, is suitable for all locations.
- 機組設計、製造、試驗之標準，均符合 CNS、NEMA、JIS 之規定。
The design, manufacture and test of machines are all strictly in accordance with the regulations of CNS, NEMA, and JIS Standards.
- 機組包括柴油引擎、發電機、散熱器冷卻系統、電氣啟動系統及控制、保護系統與其它必須之配件。
Typical Generator set includes diesel engine, alternator, radiator cooling system, electric starting system, control and protecting system, and other necessary fittings/accessories.

◎ 柴油引擎 Diesel Engines

- 選用世界名廠產品，馬力強、堅固耐用，並擁有保養廠，售後服務，確實可靠。
Selecting worldwide famous products, powerful output with high reliability. Engine agencies own maintenance facilities to provide infallible after-sale services.
- 特殊設計之燃油系統，直接噴射方式，有效控制噴油量，耗油率低。
With special designed fuel system, direct injection, controlling the injection amount of fuel effectively, lowering the fuel consumption.
- 啟動系統採用直流12V或24V控制電源，並可搭配ATS遙控啟動，確實可靠。
The electronic control system adopts DC 12V or 24V power source, and can match ATS to start remotely infallible.
- 保護系統完備，機組運轉時具備下列保護系統(告警並停機) Protection system (alarm and shut down)
 1. 水溫過高 High coolant temperature
 2. 油壓低下 Low oil pressure
 3. 引擎超速 Engine over speed
 4. 啟動逾時 Over cranking

◎ 交流發電機 Alternators

- 發電機為凸極橫軸、單軸承旋轉磁場無刷式、自導式通風、開放保護；發電機輸出電力線(NFB/ACB)標準由右側與二次側接續。
Alternators are revolving field, single bearing, brushless type, self ventilated with open protected enclosure. ; Cable connect from the breakers output terminal on right side (standards).
- 定、轉部線圈均為 F 級或 H 級絕緣，依特殊使用環境考量，提供特殊絕緣處理，耐壓、耐溫、抗濕、防鹽害及化學腐蝕且高機械強度。
The insulation systems, either Class F or H, are selected for operation in severe environments providing adequate resistance to high ambient temperature, humidity, salt fog and chemical corrosive atmosphere.
- 激磁系統採用矽控整流器與自動電壓調整器、自動回饋控制；以確保電壓之品質穩定，並具電壓/頻率特性，以消除因引擎失速而過載及防止因超載而使發電機過熱。
The exciting system, including SCR , automatic voltage regulator, automatic feedback control, provides stable voltages and possesses voltage/frequency characteristics to prohibit over load due to engine failed to speed and alternator overheating due to overload.
- 轉部經以撓性聯軸器由引擎直接驅動，並經動態平衡測試，具阻尼繞組可減少因單相使用或不平衡負載導致磁場產生脈動，並可作為並聯運轉時之穩定裝置。
Rotor assembly, dynamically balanced and direct coupled to engine through a flexible drive disc, possesses amortizes winding to help minimize voltage deviation and hunting effect resulted from single phase application and/or unbalanced loads.

◎ 控制盤 Control Panel

- 搭載於發電機組上、不佔空間。
Mounted on the generator set to save space
- 具有發電機啟動/停止之控制功能。
Control of generator set start up and shutdown
- 自動遙控啟動。
Automatic remote start
- 顯示引擎運轉現況及發電機輸出資訊。
Monitoring of engine performance and power out

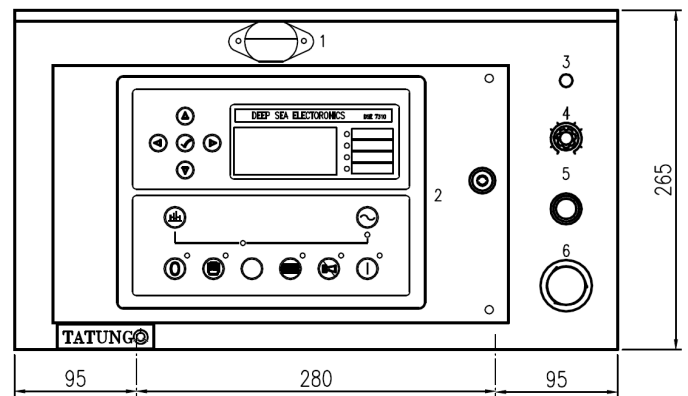
◎ 發電機控制模組 Control Module

- DEEP SEA. DSE 7310



◎ **盤面排列 Typical panel arrays (for reference)**

- 照明燈 Panel light
- 發電機控制模組 Digital control module
- 照明燈開關 Panel light ON/OFF switch
- 電壓調整鈕 Voltage regulator
- 蜂鳴器 Buzzer
- 緊急停止開關 Emergency stop button



◎ **標準配件 Standard Accessories**

- 日用油箱 Daily fuel tank
- 電瓶 Batteries
- 充電機 Battery charger
- 不銹鋼排氣可撓軟管(SUS)Exhaust flexible pipe
- 住宅型消音器 Residential grade exhaust silencer

- 機組防震橡膠墊片 Rubber plate isolators
- 基礎螺栓 Anchor bolts
- 保養工具(箱) Tool box
- 操作保養手冊 Operation & maintenance instruction manual

◎ **選擇配件(詢價或訂購時，需求項目請打勾) Optional Accessories (Please select when giving inquires)**

引擎 Engine

- ☐ 電子調速器 Electronic governor
- ☐ 冷卻水預熱器 Jacket water pre-heater
- ☐ 油水分離器 Water oil separator

- ☐ 免加水電池 Maintenance free batteries
- ☐ 鎳鎘電池 Ni-Cd batteries
- ☐ 醫院型消音器 Hospital-grade exhaust silencer

發電機 Alternator

- ☐ 除濕加熱器 Anti-condensation heater
- ☐ 單相輸出 Single phase output
- ☐ 電壓轉換板 Change voltage plate
- ☐ 耐鹽害絕緣處理 Salt mist resistance treatment
- ☐ 耐腐蝕絕緣處理 Corrosion resisting insulation proof
- ☐ 繞組溫度檢測保護電驛 Winding temperature

- ☐ detectors/protectors
- ☐ 線圈絕緣電阻異常偵測 Winding insulation resistance failure detection
- ☐ 電力線由左側接續 Cable connect on left side

控制盤 Control panel

- ☐ 落地型控制盤 Floor mounting panel
- ☐ 空間加熱器 Space heater
- ☐ 低冷卻水位警告 Low coolant level alarm
- ☐ 低燃油警告 Low fuel level alarm
- ☐ 過負載 Over load alarm
- ☐ 瓦時表 Watt-hour meter

- ☐ 功因表 Power factor meter
- ☐ 數位液晶顯示控制模組 Digital control module with LCD display
- ☐ 數位通訊(RS232/485) Digit communication
- ☐ 瓦特表 Watt meter
- ☐

發電機組 Generator set

- ☐ *熱交換器 Heat exchange
- ☐ *冷卻水塔(含循環泵) Cooling tower (including pump)
- ☐ *水箱分離式冷卻系統 Remote radiator
- ☐ *熱井 Hot well
- ☐ 防雨外箱 Weather-protected enclosure
- ☐ 防音外箱 Soundproof enclosure
- ☐ 拖車 Trailer
- ☐ 防震彈簧 Spring type vibration isolators
- ☐

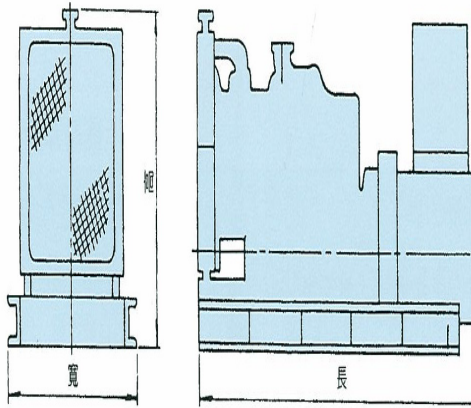
- ☐ 主迴路斷路開關 Main power circuit breaker
- ☐ 電源自動切換開關 Automatic transfer switch
- ☐ 並聯統合盤 Parallel operation device
- ☐ 黑煙淨化器 Exhaust purifying system
- ☐ 不銹鋼油箱 SUS daily fuel tank
- ☐ 火焰捕捉器(油箱)Flame arrester
- ☐ 電動抽油泵 Fuel pump (elec.)
- ☐ 手動抽油泵 Fuel pump (manual)

其他 Others

◎ 本公司可依客戶規範及特殊需求，規劃設計/製造組裝發電機組。

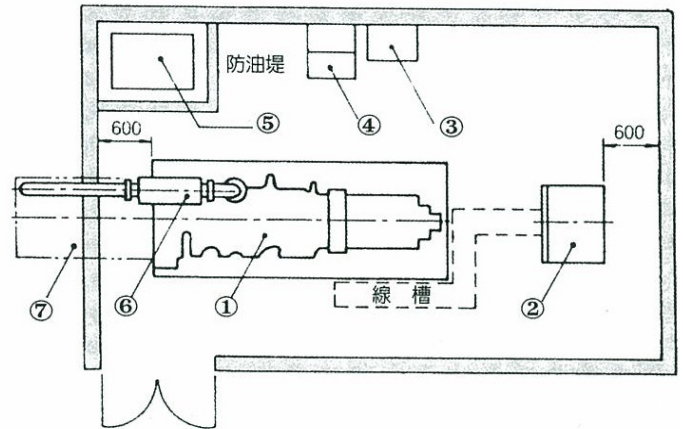
The diesel engine generator set can be tailored and designed to meet client' s requirements and specifications.

■發電機組外形圖



- ①Generator ②ATS ③Battery charger ④Batteries
⑤Daily oil tank ⑥Exhaust silencer ⑦Cooling air discharge duct

■配置參考圖



- ① 柴油引擎發電機組 ④ 蓄電池座 ⑥ 消音器
② 自動切換盤 ⑤ 日用油箱 ⑦ 排風導管
③ 充電機

◎ 安裝注意事項：Installation attentions

- 消防法規相關規定 Relevant regulation of Fire Agency
- 機組散熱通風 Heat dissipation and ventilation
- 排煙管路背壓 Max. allowable exhaust back pressure
- 機組防震裝置 Vibration isolation
- 熱交換器機組，揚程(機組至冷卻水塔)Heat exchanger set, pump head(Gen set → Cooling tower)
- 特殊安裝條件請另洽本公司 For special installation conditions, please consult with our company.



※維修服務，請先洽各重電站，謝謝。

* 內容更改，恕不另行 通知。

Specifications subject to change without prior notice.