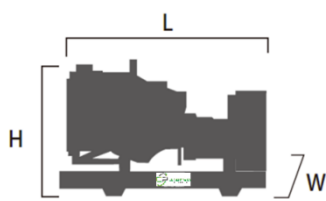




## Applicable Standards

- ISO 8528-5:2018
- GB/T2820.5-2009
- CE

| General Information               |           | Prime power                                     | Standby power |
|-----------------------------------|-----------|-------------------------------------------------|---------------|
| Rated Power (kVA)                 |           | 1600                                            | 1760          |
| Power Rating (kW)                 |           | 1280                                            | 1408          |
| Frequency (Hz)                    |           | 50                                              |               |
| Engine Model                      |           | 12V4000 G23                                     |               |
| Engine Speed (RPM)                |           | 1500                                            |               |
| Phase                             |           | 3                                               |               |
| PF                                |           | 0.8                                             |               |
| Control System                    |           | Digital                                         |               |
| Rated voltage (V)                 |           | 400/230<br>(According to customer requirements) |               |
| Fuel tank capacity operating time |           | /                                               |               |
| Fuel Consumption<br>(L/h)         | 110% load | 347.6                                           |               |
|                                   | 100% load | 316                                             |               |
|                                   | 75% load  | 237                                             |               |
|                                   | 50% load  | 158                                             |               |



## Dimension and Weight

| Model                        | CPU1600-1<br>Open type | CPU1600S-1<br>Silent type |
|------------------------------|------------------------|---------------------------|
| Length (L) mm                | 6273                   | 40'HC                     |
| Width (W) mm                 | 2200                   | 40'HC                     |
| Height (H) mm                | 2445                   | 40'HC                     |
| Dry weight (kg)              | 12500                  | 22040                     |
| Tank capacity (L)            | /                      | /                         |
| The loading capacity (40'HC) | 1 unit                 | 1 unit                    |

Note: Specifications and illustrations are subject to revision without notice.

## Environmental Conditions

- Ambient temperature: ~+50°C
- Altitude: ≤1000m

Remark: If your conditions are different from the above, please contact our sales.

## Factory Inspection

- Complete design and quality inspection
- 0%, 25%, 50%, 75%, 100%, 110% load test.
- Function test and Protection Test.

## Painting Process

- Our Supplier has the most advanced automatic spraying/powder coating production line and is equipped with various sandblasting equipment to ensure higher quality.
- Canopy painting: Henkel pretreatment process and world-famous brand AkzoNobel powder.
- Base Frame painting: Sandblasting process and AkzoNobel powder (Hempel paint is optional).



## Engine Specifications

| Engine model & manufacturer       |           | 12V4000 G23 (MTU)          |
|-----------------------------------|-----------|----------------------------|
| Emission Certification            |           | China Tier III             |
| Number of cylinders               |           | 12                         |
| Cylinder arrangement              |           | 90° V                      |
| Cycle                             |           | Four stroke                |
| Aspiration                        |           | Turbocharged               |
| Bore x Stroke                     |           | 170x 210 mm                |
| Displacement                      |           | 57.2 L                     |
| Compression ration                |           | 16: 1                      |
| Prime power /speed                |           | 1420 kW/1500 rpm           |
| Standby power /speed              |           | 1562 kW/1500 rpm           |
| Speed governor                    |           | ECM                        |
| Cooling system                    |           | Forced Water Cooling Cycle |
| Frequency droop                   |           | ≤ 5%                       |
| Total lubrication system capacity |           | 260 L                      |
| Coolant capacity (engine only)    |           | 160 L                      |
| Fuel consumption                  | 100% load | 189 g/kWh @1500 rpm        |
| Starter motor                     |           | DC 24V                     |
| Charge alternator                 |           | DC 24V                     |

## Alternator Specifications

| Alternator             |                |
|------------------------|----------------|
| Number of phase        | 3              |
| Power factor (Cos Phi) | 0.8            |
| Poles                  | 4              |
| Insulation type        | H class        |
| Winding Pitch          | 2/3            |
| IP rating              | IP23           |
| Bearing                | Single bearing |
| Voltage regulator      | AVR            |
| Coupling               | Flexible disc  |

## Control Panel

**ComAp** offers a range of controller types designed to meet various needs in the field of generator set control and monitoring. While specific models and features may vary, here are some examples of COMAP controllers commonly used:

### Inteli Gen 500



- IntelGen 500 is a paralleling controller with 5" colour display for advanced diesel gen-set applications, supporting both single and multiple gen-sets running in grid-tied or island operations.
- Effective power management
- Built-in PLC interpreter
- Load shedding
- Dynamic spinning reserve
- Built-in colour display
- Automatic Mains Failure
- Mains application in a gen-set controller
- Remote connection & monitoring
- Start-up synchronization
- Droop regulation
- Peak shaving

### InteliLite 4 MRS 16



- IntelLite 4 MRS 16 is an advanced single gen-set controller for prime power applications. Ensuring reliable prime power, the controller effectively monitors, protects, and controls the generator and circuit breaker to supply the load.
- Cybersecurity by design
- Easy configuration with IntelliConfig
- Reliable internet access
- Built-in PLC logic
- Easy troubleshooting
- Zero power mode features to avoid battery drainage for prime power applications
- Integrated communication and control ports

### InteliLite 4 AMF 25



- IntelLite 4 AMF 25 an advanced single gen-set controller for stand-by and prime power applications. Intuitive, flexible, easy to install and use, the IntelLite 4 AMF 25 controller offers multiple configuration options to create the best solution for controlling and monitoring your gen-sets both on-site and remotely.
- Flexible and efficient setup and monitoring
- Built-in PLC logic and PLC editor with easy-to-use drag and drop editing blocks
- AirGate 2.0 for easy connection to your equipment remotely
- Remote control and monitoring with Web Supervisor
- High-level security features
- Stand-by and prime power application control
- Cybersecurity by design

### InteliVision 5



- IntelVision 5 is an easy-to-use industrial operator panel with a colour screen for monitoring of single gen-set for various applications. This robust and intuitive plug & play solution provides comprehensive visual overview of all engine data, monitoring information and trend history.
- Intuitive navigation
- Robust design
- Simple installation
- 5.7" Colour screen
- Plug & play solution
- Broad operating temperature range from -30°C to +70°C
- Local and remote access for single controller monitoring
- Front face is sealed to IP65

- Our expert team will assist you in selecting the appropriate ComAp controller tailored to your specific requirements, ensuring the best choice for your application. Additionally, we offer a range of controller options from other reputable brands such as Woodward, Deep Sea, and Smartgen, providing you with a wider selection to meet your needs.

## Options

| Engine                                                                                                                                | Alternator                                                                                                                                 | Fuel System                                                                                                                                                                                                                                                                             | Generating Set                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Water Jacket Preheater<br><input type="checkbox"/> Oil Preheater<br><input type="checkbox"/> Oil manual pump | <input type="checkbox"/> PMG excitation<br><input type="checkbox"/> Space heater<br><input type="checkbox"/> Winding temperature measuring | <input type="checkbox"/> 12 / 24 hour base tank<br><input type="checkbox"/> Bunded fuel tank<br><input type="checkbox"/> External fuel tank<br><input type="checkbox"/> Automatic fuel feeding<br><input type="checkbox"/> Switch between external tank and base tank (three-way valve) | <input type="checkbox"/> Deepsea, ComAp, Smartgen Woodward, etc. controller<br><input type="checkbox"/> Trailer<br><input type="checkbox"/> Tools with the machine |



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