



Introduction

The new Twin Power series offers flexibility and performance like never before. With two gensets under one hood, it ensures backup and reliability twice. Two engines work in synchronization and back2back mode, which ensures a 24/7 power supply. The centralized control and monitoring system enables easy startup and commissioning. It provides savings in terms of total investment and operational costs to the customer.

Power

3 Phase, 50 Hz, PF 0.8

Voltage (V)	STANDBY RATING (ESP)		PRIME RATING (PRP)		STANDBY CURRENT (A)
	kW	kVA	kW	kVA	
400 / 231	1008.0	1260	920.00	1150	1819

STANDBY RATING (ESP) Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528-1. Overload is not allowed.

PRIME RATING (PRP) Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528-1. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation.

General Characteristics

Model Name	AD-TP 1260
Frequency (Hz)	50
Fuel Type	Diesel
Engine Make and Model	Hyundai DP180LA x2
Alternator Make and Model	Aksa AK 6480 x2
Control Panel Model	InteliGen NT
Canopy	AK98 - 1260TP

Engine Specifications

General Data

Manufacturer	Hyundai
Engine Model	DP180LA
Number of Cylinders / Type	10 cylinders - V type



Bore mm (in)	128
Stroke mm (in)	142
Displacement l (cu. In)	18.273
Compression Ratio	15.0:1
Engine Speed (rpm)	1500
Standby Power (kW/hp)	552/750
Prime Power (kW/hp)	502/683
Block Heater (QTY)	1
Block Heater Power (Watt)	3000
Governor System	Electronic
Air Filter	Dry Type
Aspiration	Turbo Charged and Intercooled (Air to Air)

Lubrication System

Oil Capacity l (gal)	34
Max. Oil Temperature °C (F)	120

Fuel System

Fuel Type	Diesel
Injection Type	Direct
Type of Fuel Pump	Bosh In-Line P Type

Electrical System

Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2x120
Charge Alternator (A)	45

Cooling System

Cooling Method	Water Cooled
Coolant Capacity (engine only) l (gal)	21

Exhaust System

Exhaust Gas Flow (m³/min)	106
Exhaust Back Pressure in-Hg (kPa)	5.9
Exhaust Gas Temperature °C (F)	562
Heat Rejection to Exhaust kW (BTU/min)	508

Radiator

Total Coolant Capacity (l)	97.1
Cooling Fan Air Flow m³/min (ft³/min)	700



External Restriction to Cooling Airflow (Pa)	125
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Fuel Consumption

Fuel Cons. @100% Prime Load l/h (kg/h)	123.6
Fuel Cons. @75% Prime Load l/h (kg/h)	94.2
Fuel Cons. @50% Prime Load l/h (kg/h)	64.8

Alternator Characteristics

Manufacturer	Aksa
Alternator Model	AK 6480
Frequency (Hz)	50
Power (kVA)	600
Voltage (V)	400
Phase	3
A.V.R.	SX440
Voltage Regulation	1
Insulation Class	H
Protection Class	IP22
Rated Power Factor	0.8
Weight Complete Generator (kg)	1543
Cooling Air (m³/min)	62.1

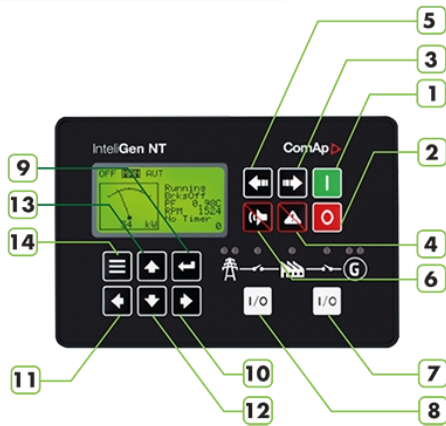
Canopy Characteristics

Length mm	9000
Width mm	2050
Height mm	2551
Full Tank Capacity (l)	1700

Control Panel

Manufacturer	Comap
Control Module Model	InteliGen NT
Communication Ports	MODBUS

1. Start
2. Stop
3. Mode > OFF > MAN > AUT > TEST
4. Fault Reset
5. Mode < OFF < MAN < AUT < TEST
6. Horn Reset



7. GCB control (Open/Close)
8. MCB control (Open/Close)
9. Enter
10. 5% Increase of edited setpoint's value.
11. 5% decrease of edited setpoint's value.
12. Decrease setpoint value.
13. Increase setpoint value.
14. Escape.

Standard Devices

InteliGen NT Auto Mains Failure control module.
Static battery charger.
Emergency stop push button and fuses for control circuits.

Control Unit

195Vac to 264Vac input voltage range
45Hz to 440Hz input supply frequency range
Capability to work direct from 240Vdc to 365Vdc supply voltage
27.6Vdc factory set DC out-put terminal voltage (option up to 29.4Vdc)
5.0Adc continuous output current into load
Capability to work continuously into short-circuit
Parallel connection for higher output current rating and redundant operation
Series connection capability for higher output voltage requirements
No cooling fans are used for high operational reliability
Aluminum alloy case for robust handling and easy mounting

Construction and Finish

Components installed in a sheet steel enclosure.
Phosphate chemical, pre-coating of steel provides corrosion resistant surface.
Polyester composite powder topcoat forms high gloss and an extremely durable finish.
Lockable hinged panel door provides for easy component access.

Installation

Control panel is mounted generating set baseframe on robust steel stand or power module. Located at the side of generating set with proper panel visibility.

Options

- High oil temperature - Shutdown

Control Panel Compliance List



- Low fuel level - Shutdown
- Low fuel level - Alarm
- High fuel level - Alarm
- Customizable load control in parallel with the network
- Wide range of ECU support
- Highly configurable
- Timers, Internal PLC, Force values and more are compatible with ComAp's IntelliVision displays
- Active e-mail messaging and SMS with communication module

EN 60068-2-6 ed.2:2008
EN 60068-2-27 ed.2:2010
EN 60068-2-30:2005
25/55°C, RH 95%, 48hours
EN 60068-2-64
EN 61010-1:2003

Static Battery Charger

EBC 2405M is designed and optimized for charging all types of Lead Acid batteries (including jell type sealed Lead Acid batteries), protecting the battery and extending its useful lifetime. EBC 2405M can deliver a continuous charging current of 5A into 24V battery system (voltage is set to 27.6Vdc, with an option of up to 29.4Vdc). These battery chargers are designed with performance in mind and special care is taken for protecting and extending the lifetime of the battery.

EBC 2405M is designed with "Switched Mode" technology, where the switching transistor has only two states, ON or OFF, which increases the overall efficiency, hence reducing the excess heat dissipation and in return, increasing the device lifetime and reliability.

The control system is also designed in such a way that; battery is charged in three stages:

Constant current mode (protecting battery cells)

Constant voltage mode (reducing the charge current)

Float charge (compensation of internal self-discharge)

Constant current mode makes sure that; when the battery is drained down below its rated capacity, the high charge current flow into the battery is limited in order to protect the cells and reduce damage to the plates.

As the battery capacity is recovered, each cell voltage reaches up to 2.30Vdc to 2.45Vdc level, which means that the required charging current starts to reduce.

When the required battery terminal voltage is fully reached, the charger keeps supplying just enough current in order to compensate for the internal self-discharge (float charge). This ensures that the battery can maintain its high charge state and deliver its rated output current whenever required.

Standard Equipment

- Water cooled, Diesel engine
- Radiator with mechanical fan
- Protective grille for rotating and hot parts
- Electric starter and charge alternator



- Starting battery (with lead acid) including rack and cables
- Automatic synchronising and power control system (Multi gen-set Parallel)
- Engine coolant heater
- Base frame design incorporates an integral fuel tank and anti-vibration isolators
- Flexible fuel connection hoses
- Single bearing, class H alternator
- Industrial exhaust silencer and steel bellows supplied separately(for open sets)
- Static battery charger
- Manual for application and installation

Optional Equipment

Engine

- Fuel-Water Separator Filter
- Oil heater

Alternator

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Main line circuit breaker

Control Panel

- Parallel system with mains
- Transition synchronization with mains
- Alarm output relays
- Earth fault, single set
- Parallel system with mains
- Remote relay output
- Remote communication with modem
- Charge Ammeter

Transfer Panel

- Three or four pole contactor
- Three or four pole motor operated circuit breaker

Auxiliary Equipment

- Main Fuel Tank
- Automatic or manual fuel filling system
- Electrical or manual oil drain pump
- Low and high fuel level alarm
- Inlet and outlet motorized louvers
- Inlet and outlet acoustic baffles
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Supplied with oil and coolant (-30°C)

Exhaust

- Residential Silencer
- Silencer Spark Arrester
- Critical Silencer
- Catalytic Converter

Canopy

- Galvanized Coating
- ISO Container
- Marine Grade Paint

Optional Alternator and Control Panel

Please contact to your reseller for additional Alternator, Control Panel and Breaker Switch options.

Aksa Certificates

Directive

- 2006/42/EC : Machinery Safety Directive
- 2014/30/EU : Electromagnetic Compatibility Directive
- 2014/35/EU : Low Voltage Directive

**Standarts**

- TS ISO 8528-5:2022 / TS EN ISO 8528-13:2018 : Reciprocating internal combustion engine-driven alternating current generating sets- Part:13: Safety

Quality Management Systems

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
ISO 50001:2018
ISO 27001:2013
ISO 10002:2018