

Reliable Power Solutions from Türkiye

Product selection catalogue for commercial, industrial and project power requirements



10 kVA to 3000 kVA

50 / 60 Hz • Open, canopy, container and mobile options

Production experience and field testing

Real production and test-area imagery supports a transparent, project-based verification process.



PRODUCTION ENVIRONMENT

Verified before dispatch

The selected generator is checked against the agreed project scope and test plan before shipment.

- Visual, cabling and grounding review
- Start-up, alarms and protection functions
- Voltage, frequency, current and load measurements



ORIGINAL TEST-BAY VIEW — SHOWN IN FULL

Pre-dispatch verification sequence

01

Pre-check

Fluids, cables and grounding

02

Start-up

Controller, alarms and stability

03

Load test

Electrical and operating values

04

Test record

Results documented before dispatch

Diesel generator range

Four practical power bands simplify the first stage of product selection.

10-100 kVA

SMALL AND COMMERCIAL

Farms, workshops, retail, homes and small sites

100-500 kVA

COMMERCIAL AND INDUSTRIAL

Hotels, buildings, agriculture and production facilities

500-1000 kVA

INDUSTRIAL POWER

Hospitals, manufacturing, mining and infrastructure

1000-3000 kVA

HEAVY DUTY AND PROJECTS

Large plants, critical facilities and synchronized systems

Selection inputs

Connected load

Starting current

Standby or prime

Site conditions

Noise limit

Required runtime

The power band is the starting point. Final sizing follows load and site review.

10-100 kVA

Compact power for smaller commercial loads, farms, workshops and residential backup.



SMALL & COMMERCIAL

10-100 kVA

50 / 60 Hz

1 or 3 phase

Open / canopy

Core choices

- Standby or prime duty
- Automatic or manual control
- ATS and extended fuel options
- Soundproof canopy for outdoor use

Sizing notes

- List all connected loads
- Identify motors, pumps and compressors
- Share phase, voltage and frequency
- State runtime and ambient conditions

100-500 kVA

Flexible generator packages for commercial buildings and medium industrial loads.



COMMERCIAL & INDUSTRIAL

Power matched to building services and production loads

APPLICATIONS

Hotels, offices, factories, farms and retail

CONTROLS

Manual, automatic, ATS or remote monitoring

FUEL

Base tank, external tank or automatic filling option

ACOUSTICS

Open set, standard canopy or lower-noise package

For motor-heavy loads, provide start method and permissible voltage dip.

500-1000 kVA

Industrial generator systems with stronger site engineering and control requirements.



INDUSTRIAL POWER

Electrical core

- Brushless, four-pole alternator
- Automatic voltage regulator
- Class H insulation and IP21-IP23 protection
- 24 V starting and charging system

Project engineering

- Ventilation and exhaust routing
- Acoustic target and enclosure type
- Fuel autonomy and transfer strategy
- ATS, synchronization and monitoring scope

Altitude, ambient temperature and load sequence can change the final rating.

1000-3000 kVA

Heavy-duty, synchronized and project-specific systems for demanding sites.



HEAVY DUTY & PROJECTS

1000-3000 kVA

System architecture

- Single large set
- Twin or multi-set plant
- Open, canopy or container

Parallel operation

- Synchronization for 2-16 sets
- Load sharing
- Mains-parallel options

Site integration

- MV/LV interface review
- Remote monitoring
- Project-specific fuel system

Project scope may include ATS, synchronization controls, extended fuel storage, acoustic treatment and commissioning support.

Engine and alternator options

Component families are matched to the required power band, frequency, duty and destination market.



ENGINE + ALTERNATOR + CONTROLLER

Engine options



Perkins



Baudouin



Cummins



FPT Industrial

VOLVO PENTA

Volvo Penta



Mitsubishi



Yanmar



Yangdong



SDEC

Alternator options



Stamford AvK



Mecc Alte



Leroy-Somer

Powertrain configuration

50 Hz

1,500 rpm

60 Hz

1,800 rpm

4-pole

Brushless alternator

AVR

Voltage regulation

Brand and model availability varies by rating and destination. The quotation confirms the exact engine, alternator and controller.

Configurations and optional equipment

Mechanical, acoustic, mobility and control options for different installation conditions.



Open set

For protected generator rooms

Soundproof canopy

Outdoor and acoustic protection

Containerized

Large systems and special projects

Trailer mounted

Mobile and temporary power

ATS

Automatic mains-generator transfer

Synchronization

Parallel control for 2-16 sets

Remote monitoring

Status and alarm communication

Fuel options

Extended tank and automatic filling

Electrical configuration and verification

Frequency, voltage, phase and duty are confirmed before the final generator selection.

GENERATOR FUNCTION VERIFICATION, PERIODIC TESTS / GENERATOR WORKING AND ALARM TESTS															
GENERATOR / ALTERNATOR BRAND :				DATACOM				ENGINE / PRIME MOVER BRAND :				PERKINS			
GENERATOR / ALTERNATOR MODEL :				DTC - 385				ENGINE / PRIME MOVER MODEL :				1106A - 70TG2			
CONTROL CARD / AVR BRAND :				DATACOM				FUEL SYSTEM / GOVERNOR TYPE :				MECHANICAL			
CONTROL CARD / AVR MODEL :				DTC - 240				ALL GENERATOR / ALTERNATOR SYSTEMS :				OK			
LOAD TEST SUMMARY (PERIODIC) / LOAD TEST TIME AND LOAD PERCENT (PERIODIC)															
TEST DATE :				10.05.2024				TEST TIME :				10:30			
TESTED BY :				ISMAIL ANAC				OPERATOR :				YUK-TEST			
RATED POWER (kVA) :				385				RATED POWER (kW) :				308			
RATED CURRENT (A) :				555.6				RATED FREQUENCY (Hz) :				50			
								PHASE :				3 PHASE			
												BAROMETER (hPa) :			
												HUMIDITY (%) :			
												FUEL TYPE :			
												RATED VOLTAGE (V) :			
												CONNECTION :			
												STAR			
LOAD TEST ANALYSIS / LOAD TEST ANALYSIS															
STEP	TIME (hh:mm:ss)	LOAD (kW)	LOAD (kVA)	LOAD (kW)	CURRENT (A)	VOLTAGE L-L (V)	FREQUENCY (Hz)	POWER FACTOR (PF)	ENGINE SPEED (RPM)	EXHAUST TEMP. (°C)	COOLANT TEMP. (°C)	FUEL CONSUMPTION (L/h)	REMARKS / ALARM		
1	00:02:00	0	0.0	0.0	0.0	404	50.0	0.00	1500	45	65	0.0			
2	00:05:00	25	96.3	77.0	138.2	402	50.0	0.81	1500	58	72	8.3	NO ALARM		
3	00:10:00	50	192.5	154.0	276.4	400	49.9	0.82	1500	64	78	16.5	NO ALARM		
4	00:15:00	75	288.8	231.0	414.6	398	49.9	0.82	1500	71	85	24.6	NO ALARM		
5	00:20:00	100	385.0	308.0	555.6	396	49.8	0.83	1500	75	92	33.0	NO ALARM		
6	00:25:00	110	423.5	338.8	611.2	394	49.8	0.83	1500	83	96	36.9	NO ALARM		
7															
8															
9															
10															

Generator Rating (kVA): 385 kVA
Test Mode: P1
Voltage (Line-Line): 400 V
S-Standby: 385 kVA
S-Prime: 350.0 kVA
P-Prime: 280.0 kW
Frequency: 50 Hz
Current (Max): 555.6 A
Operator Name: Ismail Anac
Control Card: Datacom
Function Test: OFF
TEST STEP: 5
Start, Pause, Continue, Complete buttons
Step Elapsed Time: 00:05:13
Total Test Elapsed Time: 00:07:16

YB1
1-16 status indicators
Stage Limiter: P6
Virtual Total Load: 289 kW
Real Total Load: 279.1 kW
Load Percentage: 100 %
Stage Timer: 900

Auto, Manual, Run, Stop buttons
Generator Image

FREQUENCY

50 Hz or 60 Hz

PHASE

Single or three phase

VOLTAGE

Examples: 220 / 380 / 400 / 440 V

DUTY

Standby or prime

Load-test record

- Voltage and frequency stability
- Current, kW / kVA and power factor
- Engine speed and operating temperatures
- Fuel consumption and alarm status

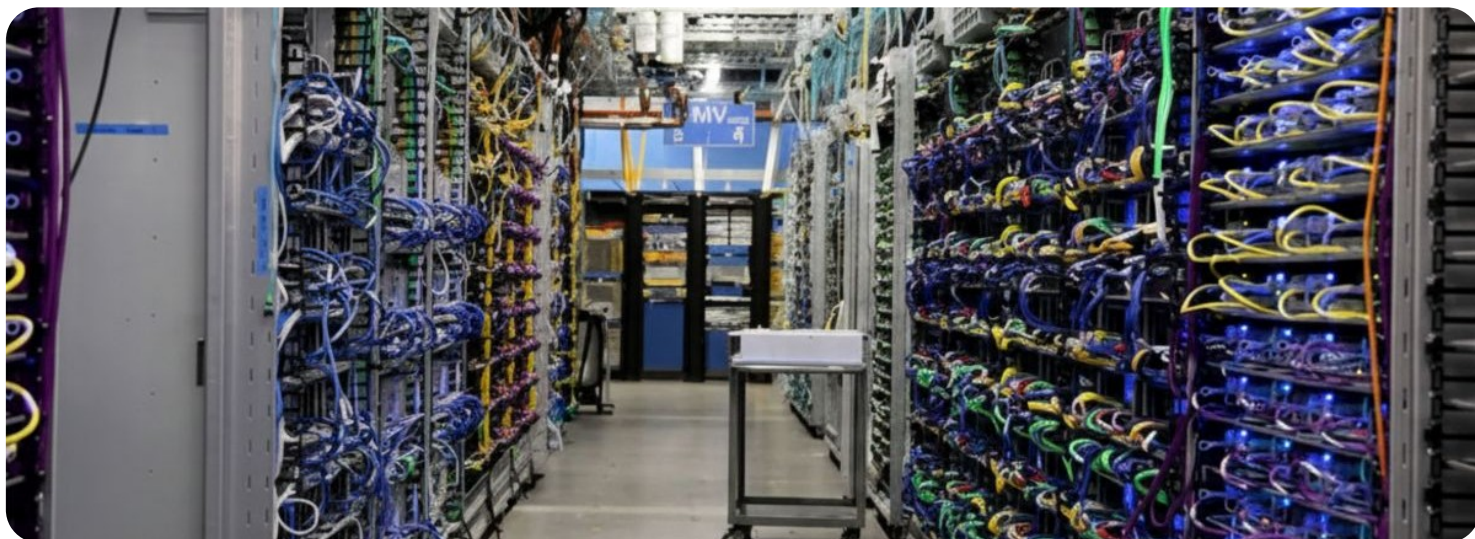
Functional checks

- Manual and automatic operating modes
- Start, stop and emergency-stop logic
- Protection thresholds and alarm history
- Synchronization sequence when required

The final test plan follows the selected model and project scope.

Application areas

Original project imagery illustrates the environments considered during generator selection.



Typical sectors

- Agriculture
- Construction
- Manufacturing
- Healthcare
- Hospitality
- Telecommunications
- Data centers
- Commercial buildings
- Mining
- Infrastructure

Information that improves selection

Connected-load list • Largest motor start • Required runtime • Site altitude and temperature • Noise limit • Installation location

Send us your requirement

We select the right generator

A complete project brief supports a faster and more accurate technical-commercial proposal.

01 Power requirement

kVA / kW or connected-load list

02 Duty

Standby or prime power

03 Frequency

50 Hz or 60 Hz

04 Voltage and phase

Voltage, single or three phase

05 Application

Facility type and critical loads

06 Site and options

Ambient, altitude, noise, runtime, ATS or synchronization

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Ankara / Türkiye

QUALITY DOCUMENTATION

ISO 9001 • ISO 14001 • ISO 45001 • ISO 10002 • CE • TSE • TS ISO 8528

Applicable certificates and declarations are confirmed for the selected model and destination market.