MOBILE LIGHTING TOWER 10-35kVA

PRODUCT CATALOG



UNINTERRUPTIBLE
ENERGY
SOLUTIONS

Aytemiz
MAKELSAN®
Uninterruptible Power Supplies/Generator

POWER
FORLIFE

www.makelsan.com.tr

LEADER IN ENERGY SOLUTIONS

The only company producing both Generator Sets and UPS systems

LEADING MANUFACTURER OF ENERGY SOLUTIONS SINCE 1976

Aytemiz - Makelsan was founded in 1976 with the aim of designing electrical power systems. Today Aytemiz-Makelsan is a leading European brand which manufactures a wide range of high technology uninterruptible power products from 1 kVA up to 8 MVA, Diesel Generator Sets from 10-2750 kVA, Static & Dynamic Uninterruptible Power Supplies, Servo & Static Voltage Regulators to Renewable Energy Products, DC Power Supply, Telecom Equipments, Battery Chargers, Inverters and Datacenter Solutions. Headquartered in Istanbul, Turkey, Aytemiz-Makelsan combines R&D, manufacturing, global sales and aftersale service processes with more than 300 qualified professionals in a fully modernized both UPS and Genset factories equipped with state-of-the-art machinery. With more than 20 area sales and service offices, 300 resellers in Turkey, over 100 global distributors worldwide and over 45 years experience in design, manufacturing and distribution in the power supply industry, Aytemiz-Makelsan is committed to provide energy solutions that guarantee power quality for all kinds of critical applications.



Istanbul Headquarters & UPS Factory

Aytemiz-Makelsan products are manufactured in Istanbul factories and all production process is monitored and developed according to ISO 9001 Quality Control System.



ISO 9001-ISO 14001-ISO 45001-ISO 10002

LIGHTING TOWER

10-35kVA

GENERAL FEATURES

POWERFUL LIGHTING, UNINTERRUPTED PERFORMANCE

Lighting towers provide ideal solutions for all areas that require safe and efficient working conditions at night or in low-visibility environments, such as construction sites, roadwork projects, mining areas, ports, outdoor events, and emergency operations.

Thanks to their portable design, lighting towers allow fast setup and easy relocation, enhancing work safety, supporting continuous operations, and maximizing project efficiency.

With its high lighting capacity, it provides uniform illumination over large areas, while its integrated generator system provides uninterrupted power independently of the grid. Its durable design withstands harsh environmental conditions, offering long-lasting operational capability and low operating costs for maximum efficiency.



GENERATOR SYSTEM PROTECTION FEATURES

- Low Water Level Warning
- High Engine Cooling System Heat Alarm
- Low Lubrication Oil Pressure Alarm
- High and Low Engine Speed (Hz) Alarm
- Over Current (Power) Alert and Alarm
- Generator High and Low Voltage (Voltage) Alarm
- Fuel Level Warning
- Battery Low Voltage Warning
- Battery Does Not Charge Warning
- Generator Start/Stop Alarm

DIESEL ENGINE

Moteurs Baudouin · Yanmar · Perkins · FPT Powertrain Technologies · Yangdong

ALTERNATOR

Leroy Somer · Gloria · Stamford · Linz Electric · Sincro

OPTIONAL FEATURES

- 400W/1000W Metal Halide
- 200W/300W/350W/400W LED
- Rear Signal Lamp
- Torsion Brake
- Hydraulic Pump Lifting System
- 5-7-9 m Tower Height
- R13/R14 Rubber Wheel Option
- Super Silent Canopy
- External Prismatic Fuel Tank (500-10000 L)
- External Cylindrical Stainless Fuel Tank (500-10000 L)
- Manual or Automatic Fuel Filling System
- Fuel and Water Separator Filter
- Diesel Engine Oil and Fuel Heating System
- Remote Monitoring System
- Alternator PMG Warning System
- Alternator Humidity Heater System

TRAILER FEATURES

- AKS Torsion and Braked Axle Model
- Parking Brake
- R13X2 / 14X2 Front Wheel with Support Leg
- Gear-Driven Rotating Jack
- R13/R14 Tire and Rim Option
- Square e-Certified Coupling
- Heavy Duty Steel Chassis
- AC Output: 32A - 400 / 230V
- AC Output: 16A - 230V
- DC Output: 8.3A - 12V




IP65 / IP66 Rated Projector


Manual Hydraulic Lifting System


32A AC / 16A AC 220V AC


3X Gear-Driven Jack


Dakatkom D300


Vehicle Type E-Approved


Crane Lifting Eye


Wheeled Jack


Steel Mudguard R13 Wheel & Tire


Water Cooling


1/3Phase



50/60 Hz


Diesel

Aytemiz MAKELSAN
Uninterruptible Power Supplies/Generator

YANMAR

LIGHTING TOWER

TECHNICAL SPECIFICATIONS

MODEL	12kVA Portable	15kVA Portable	YANMAR	YANMAR	YANMAR
Model	MJ12LTM	MJ15LTM	MJYR13LTM	MJYR20LTM	MJYR22LTM
Standby Power (kW / kVA)	9.6 / 12	12 / 15	10.4 / 13	16 / 20	17.6 / 22
Prime Power (kW / kVA)	8.7 / 11	10.8 / 13.6	9.5 / 11.8	14.5 / 18	16 / 20
Phase	1 - 3	3	3	3	3
ENGINE					
ENGINE MODEL	EV80	EV80	3TNV88-GGEA	3TNV88-GGEASE	4TNV88-GGEA
Engine Power (kW)	14	14.8	13	25	16
Tank Capacity (L)	25	25	40	40	40
Speed (rpm)	3000	3000	1500	1500	1500
Cooling	Water Cooling	Air Cooling	Water Cooling	Water Cooling	Water Cooling
ALTERNATOR					
Voltage (V)	230 or 230 / 400	230 / 400	230 / 400	230 / 400	230 / 400
Pole	2	2	4	4	4
Power Factor	0.8	0.8	0.8	0.8	0.8
Frequency (Hz)	50	50	50	50	50
Voltage Regulation	±1%	±1%	±1%	±1%	±1%
LIGHTING					
Number of Projectors*	4	4	4	4	4
Projector Power (W)*	200	200	200	200	200
Total Lumen	22095	22095	22095	22095	22095
Color Temperature (K)	6500	6500	6500	6500	6500
IP Rating	IP65 / IP66	IP65 / IP66	IP65 / IP66	IP65 / IP66	IP65 / IP66
MAST / MECHANICAL					
Mast Type	Mechanical	Mechanical	Mechanical / Hydraulic	Mechanical / Hydraulic	Mechanical / Hydraulic
Wind Resistance (km/h)	80	80	80	80	80
Rotation Angle	360°	360°	360°	360°	360°
DIMENSIONS					
Maximum Tower Height (mm)	6000	6000	8000	8000	8000
Collapsed Tower Height (mm)	2700	2700	2700	2700	2700
Length (mm)	3160	3160	3670	3670	3670
Width (mm)	1300	1300	2080	2080	2080
Weight (kg)	600	600	1050	1020	1050

*Number of Projectors Standard 4 projectors, optionally up to 6 projectors.

*Projector Power (W) Standard 4×200W projectors, optionally 250W, 300W, 350W, 400W, 1000W.

Aytemiz - Makelsan reserves the right to make changes in model, technical specifications, color, equipment, and accessories without prior notice.

N/A: Weight, dimensions, and capacities may vary depending on the project.

Aytemiz Jeneratör A.Ş.

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444 2986 AYTM

POWER FORLIFE

Aytemiz MAKELSAN
Uninterruptible Power Supplies/Generator

YANGDONG

LIGHTING TOWER

TECHNICAL SPECIFICATIONS

MODEL	YANGDONG	YANGDONG	YANGDONG	YANGDONG
Model	MJY17LTM	MJY22LTM	MJY28LTM	MJY33LTM
Standby Power (kW / kVA)	13.6 / 17	17.6 / 22	22.4 / 28	26.4 / 33
Prime Power (kW / kVA)	12.2 / 15.4	16 / 20	20.4 / 25.5	24 / 30
Phase	3	3	3	3
ENGINE				
ENGINE MODEL	YD480D	YND485	YD490D	Y495D
Engine Power (kW)	16	19	26.4	30
Tank Capacity (L)	40	40	40	40
Speed (rpm)	1500	1500	1500	1500
Cooling	Water Cooling	Water Cooling	Water Cooling	Water Cooling
ALTERNATOR				
Voltage (V)	230 / 400	230 / 400	230 / 400	230 / 400
Pole	4	4	4	4
Power Factor	0.8	0.8	0.8	0.8
Frequency (Hz)	50	50	50	50
Voltage Regulation	±1%	±1%	±1%	±1%
LIGHTING				
Number of Projectors*	4	4	4	4
Projector Power (W)*	200	200	200	200
Total Lumen	22095	22095	22095	22095
Color Temperature (K)	6500	6500	6500	6500
IP Rating	IP65 / IP66	IP65 / IP66	IP65 / IP66	IP65 / IP66
MAST / MECHANICAL				
Mast Type	Mechanical / Hydraulic	Mechanical / Hydraulic	Mechanical / Hydraulic	Mechanical / Hydraulic
Wind Resistance (km/h)	80	80	80	80
Rotation Angle	360°	360°	360°	360°
DIMENSIONS				
Maximum Tower Height (mm)	8000	8000	8000	8000
Collapsed Tower Height (mm)	2700	2700	2700	2700
Length (mm)	3670	3670	3870	3870
Width (mm)	2080	2080	2080	2080
Weight (kg)	1100	1125	1130	1130

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Perkins

LIGHTING TOWER

TECHNICAL SPECIFICATIONS

MODEL	PERKINS	PERKINS	PERKINS	PERKINS
Model	MJP10LTM	MJP15LTM	MJP22LTM	MJP33LTM
Standby Power (kW / kVA)	8 / 10	12 / 15	18 / 22	26 / 33
Prime Power (kW / kVA)	7.3 / 9.1	13.6 / 10.9	20 / 16	24 / 30
Phase	1 - 3	3	3	3
ENGINE				
ENGINE MODEL	403A-11G1	403A-15G1	404A-22G1	1103A-33G
Engine Power (kW)	9.2	13.2	20.3	31.0
Tank Capacity (L)	40	40	40	40
Speed (rpm)	1500	1500	1500	1500
Cooling	Water Cooling	Water Cooling	Water Cooling	Water Cooling
ALTERNATOR				
Voltage (V)	230 / 400	230 / 400	230 / 400	230 / 400
Pole	4	4	4	4
Power Factor	0.8	0.8	0.8	0.8
Frequency (Hz)	50	50	50	50
Voltage Regulation	±1%	±1%	±1%	±1%
LIGHTING				
Number of Projectors*	4	4	4	4
Projector Power (W)*	200	200	200	200
Total Lumen	22095	22095	22095	22095
Color Temperature (K)	6500	6500	6500	6500
IP Rating	IP65 / IP66	IP65 / IP66	IP65 / IP66	IP65 / IP66
MAST / MECHANICAL				
Mast Type	Mechanical / Hydraulic	Mechanical / Hydraulic	Mechanical / Hydraulic	Mechanical / Hydraulic
Wind Resistance (km/h)	80	80	80	80
Rotation Angle	360°	360°	360°	360°
DIMENSIONS				
Maximum Tower Height (mm)	8000	8000	8000	8000
Collapsed Tower Height (mm)	2700	2700	2700	2700
Length (mm)	3670	3670	3670	3870
Width (mm)	2080	2080	2080	2080
Weight (kg)	1000	1020	1050	1050

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LIGHTING TOWER

TECHNICAL SPECIFICATIONS

MODEL	FPT	BAUDOUIN	BAUDOUIN	BAUDOUIN
Model	MJF33LTM	MJB20LTM	MJB25LTM	MJB33LTM
Standby Power (kW / kVA)	26 / 33	16 / 20	20 / 25	26.4 / 33
Prime Power (kW / kVA)	24 / 30	14.5 / 18.1	18.1 / 22.7	21.1 / 26.4
Phase	3	3	3	3
ENGINE				
ENGINE MODEL	80313AM1P.S55	4M06G20/5	4M06G25/5	4M06G33/5
Engine Power (kW)	31.6	20	25	33
Tank Capacity (L)	40	40	40	40
Speed (rpm)	1500	1500	1500	1500
Cooling	Water Cooling	Water Cooling	Water Cooling	Water Cooling
ALTERNATOR				
Voltage (V)	230 / 400	230 / 400	230 / 400	230 / 400
Pole	4	4	4	4
Power Factor	0.8	0.8	0.8	0.8
Frequency (Hz)	50	50	50	50
Voltage Regulation	±1%	±1%	±1%	±1%
LIGHTING				
Number of Projectors*	4	4	4	4
Projector Power (W)*	200	200	200	200
Total Lumen	22095	22095	22095	22095
Color Temperature (K)	6500	6500	6500	6500
IP Rating	IP65 / IP66	IP65 / IP66	IP65 / IP66	IP65 / IP66
MAST / MECHANICAL				
Mast Type	Mechanical / Hydraulic	Mechanical / Hydraulic	Mechanical / Hydraulic	Mechanical / Hydraulic
Wind Resistance (km/h)	80	80	80	80
Rotation Angle	360°	360°	360°	360°
DIMENSIONS				
Maximum Tower Height (mm)	8000	8000	8000	8000
Collapsed Tower Height (mm)	2700	2700	2700	2700
Length (mm)	3870	3670	3670	3870
Width (mm)	2080	2080	2080	2080
Weight (kg)	1050	1000	1020	1050

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