



ARKEN GENERATOR SOLAR HYBRID GENERATOR GROUPS

www.arkenjenerator.com

ARKEN GENERATOR

Arken Generator, established in 2012 with the slogan "Life Goes On" and 100% Turkish capital, started its journey. Arken Generator has the capacity to produce the highest added value under a single roof and has the capability to manufacture diesel generators ranging from 2 kVA to 2750 kVA, with an annual production capacity of 5,000 units.

Operating in a 14,000 m² area in Arnavutköy, Istanbul, Arken Generator offers solutions tailored to customer and project requirements. In addition to its central factory, Arken has a strong service network throughout Turkey, including regional offices in Istanbul Anatolian Side, Ankara, Aegean, Mediterranean, Southeastern Region, and Çukurova Regional Representative Office. While producing energy solutions, Arken also establishes distributorships and signs successful projects internationally, from the Middle East to the Turkish Republics, Europe to Africa.

VISION

- To be a company that creates value for our country, our customers, our employees, and our shareholders, based on the "Integrated Management System."
- To ensure lasting and sustainable customer satisfaction in sales and after-sales services, starting from the production stage.
- To be able to respond quickly to the special needs of our customers with the technological and innovative solutions we offer.

MISSION

- With our slogan "Life Goes On," to be present with our brand in every area where energy continuity is of vital importance, both in Turkey and worldwide.
- By ensuring the continuous development of our industry, to create value for our national economy in terms of both production and employment.
- As a 100% locally owned Turkish company, to stand out among our competitors worldwide and make a difference with our quality and professional engineering team.

WHY ARKEN SOLAR HYBRID?



MAINTENANCE AND REPAIR

Our expert engineers and technical teams are always prepared for technical issues.



BUDGET-FRIENDLY

We provide high-quality service at economical prices.



REMOTE MONITORING

With remote monitoring, we ensure easy tracking in rugged terrains.



QUIET OPERATION

We provide generators that operate at low noise levels with silent enclosures.



CUSTOMER-FOCUSED

PROJECTS

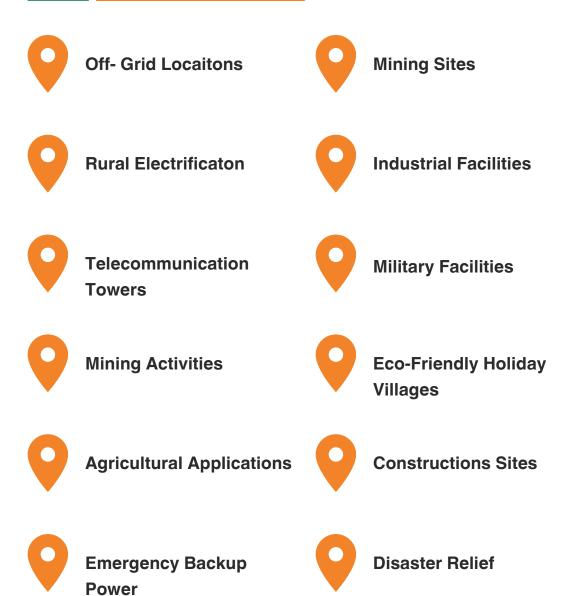
We prepare customized projects and offers with different generator brands at the desired power level.



REDUCING CO2 EMISSIONS

We offer a more environmentally friendly approach with hybrid generators produced by combining solar energy and diesel generators.

AREAS OF HYBRID GENERATORS



SOLAR HYBRID GENERATOR ADVANTAGES



It reduces diesel fuel consumption when solar energy is utilized.



It lowers operating costs.



It reduces carbon emissions as solar energy is used.



It offers long-term sustainable energy solutions.



Remote monitoring and control systems.



The diesel generator provides a continuous power source when solar energy is low or unavailable.

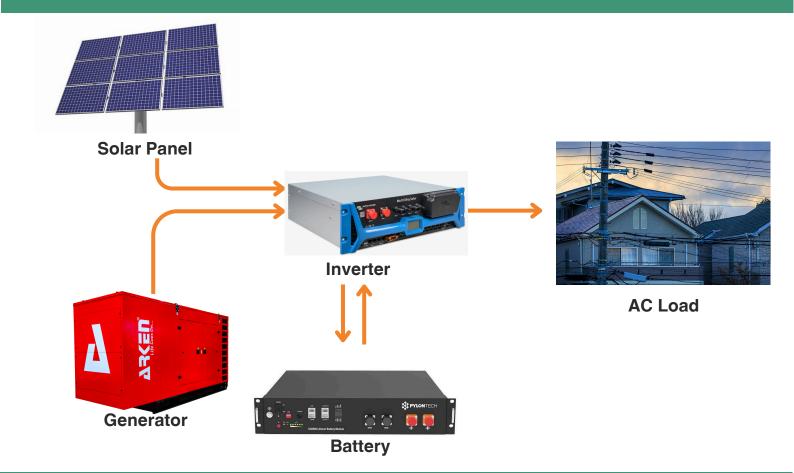


It enables the development of various projects with customerfocused solutions.



Designs are made in a wide range of power capacities.

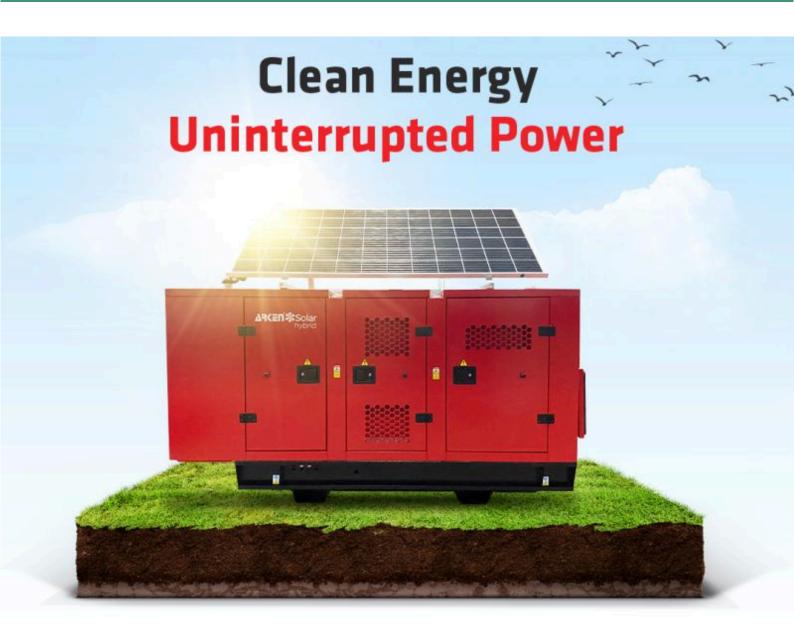
OPERATING PRINCIPLE



Solar hybrid diesel generators are systems that increase energy efficiency by combining solar energy and diesel generator technologies.

First, solar panels convert sunlight into electrical energy, which is used directly to meet the user's needs. When there is excess energy production, it is stored in battery systems. The stored energy is then used when solar energy is insufficient or unavailable, ensuring continuous power supply. If both solar energy and stored energy are insufficient, the system automatically activates the diesel generator. This way, energy resources are used more efficiently, fuel consumption is reduced, and maximum benefit is gained from solar energy. Additionally, these systems help reduce carbon emissions.





OUR PRODUCTS

Δ=	R(EN' Solar	ARK-12H5M-N5	ARK-15H7M-N5	ARK-22H11M-N5	ARK-Q42H22M-N5	ARK-Q66H33T-N5		
OUTPUT POWER/ ÇIKIŞ GÜCÜ	Output power at 25°C/ Çıkış Gücü 25°C	5kW	7kW	11kW	22kW	33kW		
	Solar Daily Power (μ)	20 kWh	40 kWh	60 kWh	120kWh	180 kWh		
	Günlük Güneş Enerjisi (μ)	When the daily power is exceeded, the diesel generator will be activated. / Günlük güç aşıldığında dizel jeneratör devreye girecektir.						
	AC Output Voltage/ AC Çıkış Gerilimi	50Hz, 230V 50Hz, 400V						
	Output Switch/Çıkış Şalteri	40A	50A	63A	120A	4P-63A		
	Solar Panels/Güneş Paneli	5kWp (9X550W)	8,8kWp (16X550W)	13,2kWp (24X550W)	26,4kWp (48X550W)	39,6kWp (72X550W)		
	PV Array MPPT Voltage Range/ Güneş Paneli MPPT Gerilim Aralığı	120V~450V						
ÜCÜ	Diesel Generator Power/ Dizel Jeneratör Gücü	11,5kVA /9,2 kW	15kVA /12 kW	22kVA /17,6 kW	42 kVA /33,6kW	63kVA / 48 kW		
iRiș G	Generator Engine / Jeneratör Motor	Quanchai						
R/G	Fuel Types / Yakıt Tipi		Standar	d Diesel: EN590:96 BS 286	9 - A1 or A2			
INPUT POWER/GIRIŞ GÜCÜ				nerator is active. /Yakıt sa	•			
	Fuel Consumption/ Yakıt Tüketimi	When the generator is on it will meet the load and charge the battery./ Jeneratör çalıştığında yükü karşılar ve aküyü şarj eder.						
	Tant Tunetiiii	100% load:3,0 L/h 75% load: 2,2 L/h 50% load: 1,6 L/h	100% load:3,1 L/h 75% load: 2,2 L/h 50% load: 1,65 L/h	100% load:4,3 L/h 75% load: 3,13 L/h 50% load: 2,3 L/h	100% load:8,2 L/h 75% load: 6,2 L/h 50% load: 4,5 L/h	100% load:13,7 L/h 75% load: 10,1 L/h 50% load: 7 L/h		
	Fuel Tank Capacity/ Yakıt Tankı Kapasitesi	43L	43L	62L	120L	250L		
	Battery Type/Batarya Tipi							
STORAGE/DEPOLAMA	Capacity/Kapasite @ 25°C/kW	9,6 kWh	14,4 kWh	19,2 kWh	43,2 kWh	57,6 kWh		
	Capacity/Kapasite @ 25°C/AMP	48V - 200A	48V - 300A	48V - 400A	48V - 900A	48V - 1200A		
AGE,	Humidity/Nem	5% ~ 95%(RH)						
TOR/	Charge Time (approx.) / Şarj Süresi (ortalama)	2						
S	Service life (years)/ Hizmet Ömrü (yıl)	10+ Years /10+ yıl	10+ Years /10+ yıl	10+ Years /10+ yıl	10+ Years /10+ yıl	10+ Years /10+ yıl		
CONTROL / KONTROL	Inverter and System Controls/ Invertör ve Sistem Kontroller	MPPT charge controllers, remote communication, monitoring & control. User friendly graphical display performance & event logs. Enhanced system management. Low fuel level alarm & monitoring / MPPT Solar şarj kontrol cihazları, uzaktan iletişim, izleme ve kontrol. Kullanıcı dostu grafiksel performans ve hata kayıtları. Gelişmiş sistem yönetimi. Düşük yakıt seviyesi alarmı ve izleme.						
	Soft Start / Yumuşak Çalıştırma	24/7 manually operated timer with soft start functionality to prevent overloading / Aşırı yüklemeyi önlemek için yumuşak başlatma işlevine sahip 7/24 manuel olarak çalıştırılan zamanlayıcı						
7	Dimensions Length (mm) / Uzunluk							
MECHANICAL MEKANIK	Dimensions Width (mm) / Genişlik	Custom on request / Müşteri talebine göre						
	Dimensions Height (mm) / Yükseklik	Custom on request / Muşteri talebine göre						
	Model Weight (kg) / Ağırlık							
	Model Lift Points / Kaldırma Noktaları	Forklift pockets - lower lift guides and crane overhead guides / Forklift cepleri - alt kaldırma kılavuzları ve vinç baş üstü kılavuzları						
AR ~	Safety/Güvenlik	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
RDS RTL	Emission, Immunity/ Emisyon, Dayanıklılık	EN 55014-1, EN 55014-2, EN-IEC 61000-3-2, EN-IEC 61000-3-3, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3						
NDA	Machine Standards / Makine Yönetmeliği	2006/42/EC EN ISO 12100:2016						
STANDARDS / STANDARTLAR	Quality Standards / Kalite Standartları	ISO 9001:2015, CE, TS ISO8528-5, TS ISO 8528-13, TS ISO 8528-4, ISO 10002:2014, ISO 14001:2015, ISO 45001:2018, Noise Directive 2000/14/EC						

NOT: Arken ürünlerde değişiklik ve revizyon yapabilir. Ürünler belli güç aralıklarında kombinasyon yapılabilir. (GÜNEŞ PANELİ,AKÜ ORANLARI, MOTOR MODEL VE GÜÇLERİNİ vb. DEĞİŞTİREBİLİR.) Arken can make changes and revisions to the products.

Products can be combined in certain power ranges. (SOLAR PANEL, BATTERY RATES, MOTOR MODELS AND POWERS, etc. can be changed).

∆RKEN		ARK-B110H50N5	ARK-B220H100N5	ARK-B300H150N5	ARK-B420			
R/	Output power at 25°C/ Çıkış Gücü 25°C	50kW	100kW	150kW	2001			
OUTPUT POWER/ ÇIKIŞ GÜCÜ	Solar Daily Power (μ)/	250 kWh	500 kWh	750 kWh	1000k			
T PC \$ GÜ	Günlük Güneş Enerjisi (μ)	When the daily power is exceeded, the diesel gene						
TPUT ÇIKIŞ	AC Output Voltage/ AC Çıkış Gerilimi							
no	Output Switch/ Çıkış Şalteri	4P160A	4P160-400A	4P160-400A	4P250-			
	Solar Panels/ Güneş Paneli	65kWp (119X550W)	130kWp (238X550W)	196kWp (357X550W)	262kWp (47			
	PV Array MPPT Voltage Range/ Güneş Paneli MPPT Gerilim Aralığı							
3ÜC(Diesel Generator Power/ Dizel Jeneratör Gücü	110kVA /88 kW	220kVA /176 kW	300kVA /240 kW	420 kVA /			
Riş (Generator Engine /				The state of			
a/Gi	Jeneratör Motor Fuel Types /				Standard			
WEF	Yakıt Tipi			Fred is only read w				
INPUT POWER/GİRIŞ GÜCÜ	Fuel Consumption/ Yakıt Tüketimi	Fuel is only used when the gene When the generator is on it will meet the load and						
=		100% load:21,3 L/h 75% load: 16,0 L/h 50% load: 11,0 L/h	100% load:43,1 L/h 75% load: 32,4 L/h 50% load: 22,4 L/h	100% load:56,9 L/h 75% load: 42,2L/h 50% load: 28,3 L/h	100% load: 75% load: 50% load:			
	Fuel Tank Capacity/ Yakıt Tankı Kapasitesi	250L	580L	580L	820			
-	Battery Type/Batarya Tipi	Ω Pomeg						
DEPOLAMA	Capacity/Kapasite @ 25°C/kW	102,4 kWh	204,8 kWh	307,2 kWh	409,6			
/DEP	Capacity/Kapasite @ 25°C/AMP	512V - 200A	512V - 400A	512V - 600A	512V -			
AGE,	Humidity/Nem							
STORAGE,	Charge Time (approx.) / Şarj Süresi (ortalama)							
ST	Service life (years)/ Hizmet Ömrü (yıl)	10+ Years /10+ yıl	10+ Years /10+ yıl	10+ Years /10+ yıl	10+ Years			
CONTROL /	Inverter and System Controls/ Invertör ve Sistem Kontroller	MPPT Charge Controllers, remote communication, monitorin management. Low fuel level alarm & monitoring / MPPT Solar şarj kontrol cihazla yönetimi. I						
0 3	Soft Start / Yumuşak Çalıştırma	24/7 manually operated timer with soft start functionality to pre						
1.	Dimensions Length (mm) / Uzunluk	5900	5900	7290	729			
MECHANICAL MEKANIK	Dimensions Width (mm) / Genişlik	2350	2350	2500	250			
ECHANIC/ MEKANİK	Dimensions Height (mm) / Yükseklik	2370	2370	2500	250			
AEC! ME	Model Weight (kg) / Ağırlık	4920	7350	9510	114!			
2	Model Lift Points / Kaldırma Noktaları	•		Forklift pockets - lower lift guides and crane o				
R /	Safety/Güvenlik	IEC/EN 6:						
RDS	Emission, Immunity/ Emisyon, Dayanıklılık	EN 55014-1, EN 55014-2, EN-IEC 6:						
STANDARDS /	Machine Standards / Makine Yönetmeliği							
STA	Quality Standards / Kalite Standartları	lity Standards / Kalite Standartları ISO 9001:2015, CE, TS ISO 14001:2						

NOT:

H200N5	ARK-B500H250N5	ARK-B660H300N5	ARK-B825H400N5	ARK-B1035H500N5				
ζW	250kW	300kW	400kW	500kW				
ιWh	1250 kWh	1500 kWh	2000 kWh	2500 kWh				
erator will be activated. / Günlük güç aşıldığında dizel jeneratör devreye girecektir.								
50Hz, 400V								
-630A	4P320-800A	4P400-1000A	4P500-1250A	4P640-1600A				
76X550W)	327kWp (595X550W)	393kWp (714X550W)	523kWp (952X550W)	654kWp (1190X550W)				
150	V~850V							
/336kW	500kVA / 400 kW	660kVA / 528kW	825kVA /660 kW	1010kVA /808 kW				
3aud	ouin							
	90:96 BS 2869 - A1 or A2							
	i ve. /Yakıt sadece jenera t e battery./ Jeneratör çalış		ziivii sari adar					
a charge th	e battery./ Jenerator çalış	liğirida yükü karşılar ve ai	kuyu şarj eder.					
:82,1 L/h 60,7 L/h 41,0 L/h	100% load:95,9 L/h 75% load: 69,6 L/h 50% load: 46,6 L/h	100% load:124,2 L/h 75% load: 95,4 L/h 50% load:64,7 L/h	100% load:161,5 L/h 75% load: 116,4 L/h 50% load: 76,9 L/h	100% load:194,1 L/h 75% load: 143,7 L/h 50% load: 97,3 L/h				
)L	820L	1140L	1500L	1500L				
	ım Demir Fosfat							
kWh	512 kWh	614,4 kWh	819,2 kWh	1024 kWh				
800A	512V - 1000A	512V - 1200A	512V - 1600A	512V - 2000A				
	95%(RH)	312V - 1200A	312V - 1600A	312V - 2000A				
	2		 					
/10+ yıl	10+ Years /10+ yıl	10+ Years /10+ yıl	10+ Years /10+ yıl	10+ Years /10+ yıl				
g & control. User friendly graphical display performance & event logs. Enhanced system ırı, uzaktan iletişim, izleme ve kontrol. Kullanıcı dostu grafiksel performans ve hata kayıtları. Gelişmiş sistem Düşük yakıt seviyesi alarmı ve izleme.								
ding / Aşırı yül	klemeyi önlemek için yumuşak ba	aşlatma işlevine sahip 7/24 man	uel olarak çalıştırılan zamanlay	/ICI				
10	13500	13500						
10	2500	2500	Custom on request	/ Müşteri talebine göre				
10	2500	2500 Custom on re		quest / Muşteri talebille gore				
50	14500	18200						
verhead guides / Forklift cepleri - alt kaldırma kılavuzları ve vinç baş üstü kılavuzları								
1000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2								
1000-3-2, EN-IEC 61000-3-3, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3								
2006/42/EC EN ISO 12100:2016								
ISO8528-5, TS ISO 8528-13, TS ISO 8528-4, ISO 10002:2014, !015, ISO 45001:2018, Noise Directive 2000/14/EC								
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THE BRANDS WE **PARTNER WITH**

Solar Panels

Inverter

Storage





































OUR PRODUCT

Baudouin





































OUR REFERENCES

 Tiny House Project - ARK-Q15 İstanbul/ TÜRKİYE



Telecommunication Project - ARK-Q22
 AZERBAYCAN



REFERANSLARIMIZ

Telecommunication Project- ARK-B25
 Osmaniye / TÜRKİYE



Military Project - ARK-Q12
 TÜRKİYE









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Hayat Hiç Durmasın... Life Goes On...