

KEEP YOUR LIGHTS ON.



# HELIOS

RESIDENTIAL ENERGY STORAGE SYSTEM

## Hybrid Solar Inverter

MQK-E3-6k-1P **6kW**

MQK-E3-8k-1P **8kW**

Residential | Single-Phase | LV Battery | MPPTs



### IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation



### On-Grid and Off-Grid

MQK-E3 Series is suitable for on-grid and off-grid applications



### Easy access

Accessible through a LCD touch screen and through the web



### Remote Monitoring

Control and monitor your smart system remotely using our monitoring App and website



### BMS

BMS Communication or lithium battery



### Safe

Physical and electrical dual isolation, earth leakage current monitoring, anti-island protection, insulation detection and more



### 5 Years Warranty

Supplied with a full manufacturers warranty



### Flexible Rate Tariff

Charge from the grid during off-peak hours when energy is cheaper, and discharge during peak hours when energy is more expensive

Model	MQK-E3-6k-1P	MQK-E3-8k-1P
Rated Power	6000VA/6000W	8000VA/8000W
<b>PV INPUT</b>		
Max.power(kW)	7.5	10
Max.DC voltage(V)	500	
MPPT voltage range(V)	90~450	
Max.input current(A)	30	
MPPT number/Max.input strings number	1/2	2/2
<b>AC OUTPUT(GRID-TIED)</b>		
Grid voltage/range(V)	230/90-280(For Personal Computers);170~280(For Home Appliances)	
Frequency(Hz)	50/60	
PF	0.8lagging-0.8leading	
THDi	<3%	
AC output topology	L+N+PE	
<b>BATTERY</b>		
Battery voltage range(V)	40~63	
Max.charging voltage(V)	63	
Max.charge/discharge current(A)	100/120	
Battery type	Lithium /Lead-acid	
<b>UPS OUTPUT</b>		
Rated power (kW)	6	8
Rated output voltage(V)	220/230/240	
Rated output current(A)	27.2/27/25	36.3/34.7/33.3
Rated frequency (Hz)	50/60	
Transfer Time(ms)	<10	
THDu	<10%	
Overload capacity	5s@≥110%load; 10s@101%~110%load	
<b>PROTECTION &amp; FEATURE</b>		
Anti-island protection	Yes	
Insulation monitoring	Yes	
Residual current monitoring	Yes	
Arc fault protection	Yes(Optional)	
Parallel function	Yes,6 units	
Other protection	AC overcurrent,AC overvoltage,Over temperature protection	
<b>GENERAL PARAMETER</b>		
Efficiency(Peak)	93%	
Degree of protection	IP65	
Operation temperature	-25°C~50°C,>45°C derating	
Cooling	smart cooling	
Relative humidity	5~95%(non-condensing)	
Altitude	(>2000m Derating)	
Dimensions W x D x H(mm)	345*197*630	
Net Weight(kg)	22.5	32
Isolation transformer	No	
Self-consumption(W)	<5	
<b>DISPLAY AND COMMUNICATION</b>		
Display	Touch screen	
Interface	Standard:RS232,CAN&RS485,Optional:WiFi,CT	
Safety standard	EN/IEC62109-1,EN/IEC62109-2	

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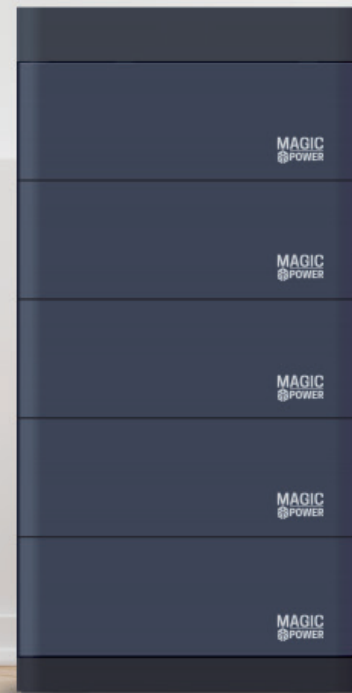


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## Lithium-ion battery MQK-E3-BL5

- ▶ Max. capacity: 35.84kWh
- ▶ Module capacity: 51.2V 100Ah



\* Up to 7 modules can be stacked

- ◆ Modular design, independent maintenance
- ◆ Supports parallel operation to meet various power demands
- ◆ Independently developed energy storage-specific BMS, safe and reliable
- ◆ Compatible with mainstream inverter CAN/RS485 protocols
- ◆ Inverter integration
- ◆ Remote monitoring and upgrades

DESCRIPTION		MQK-E3-BL5				
Cell Technology	Lithium Iron Phosphate (LFP)					
Battery System Capacity(kWh)	10.24	15.36	20.48	25.6	30.7	35.84
Battery System Voltage (Vdc)	51.2	51.2	51.2	51.2	51.2	51.2
Battery System Capacity (Ah)	200	300	400	500	600	700
Battery Module Quantity(pcs)	2	3	4	5	6	7
Battery Module Capacity(kWh)	5.12					
Battery Module Voltage (Vdc)	51.2					
Battery Module Capacity (Ah)	100					
MAX: Battery System Charge Current(Amps, Standard)	100					
MAX: Battery System Discharge Current(Amps, Normal)	120					
Depth of Discharge (%)	90					
Dimension (W*D*H, mm)	570*400*550	570*400*710	570*400*870	570*400*1030	570*400*1190	570*400*1350
Communication	RS485/CAN/RS232					
Weight (≈kg)	120	170	220	270	320	370
Operation Life (Years)	10					
OperationTemperature (°C)	0~50					
StorageTemperature (°C)	-20~60					
Altitude(m)	2000					
Product Certificate	UL1973;IEC62619;UN38.3;CE/EMC;EN61000;MSDS					