

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
PV INPUT		
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
AC OUTPUT(GRID-TIED)		
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	
BATTERY		
Battery voltage range(V)	40~63	
Max.charging voltage(V)	63	
Max.charge/discharge current(A)	100/120	
Battery type	Lithium /Lead-acid	
UPS OUTPUT		
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	
PROTECTION & FEATURE		
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	
GENERAL PARAMETER		
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	
DISPLAY AND COMMUNICATION		
Display	Touch screen	
Interface	Standard:RS232,CAN&RS485,Optional:WiFi,CT	
Safety standard	EN/IEC62109-1,EN/IEC62109-2	