



## EPH Series Three Phase

4kW/5kW/6kW/8kW/10kW/12kW



### Superior Performance

**Backup switching in less than 10ms**  
Maximum conversion efficiency up to 98.2%  
MPPT efficiency up to 99.9%



### Safety and Reliability

**Integrated arc fault circuit interrupter**  
IP65 protection from water and dust  
International quality standards,  
Tested by TUV, BV, Dekra etc.  
5 years warranty



### Professional Design and Flexibility

High cooling performance  
Fan-less design with aluminium heat sink  
LCD displays  
Support WiFi/LAN/Cell connection  
**Up to 2 MPPTs for PV string versatility**

## 3-PHASE UNBALANCED OUTPUT

Our inverters provide high-precision 3-phase unbalanced power output, with an exceptional accuracy of up to 98%. Unlike conventional inverters that typically offer only 90% precision. Ensure efficient power distribution throughout your home.

+92-326-5222111



## THREE PHASE HYBRID INVERTER

### Technology Data

EPH Series EPH10KTL (4KW / 5KW / 6KW / 8KW / 10KW / 12KW)

Model No	EPH4KTL	EPH5KTL	EPH6KTL	EPH8KTL	EPH10KTL	EPH12KTL
<b>Input ( DC )</b>						
Max DC power	6000W	7500W	9000W	12000W	15000W	15000W
Max DC voltage	1000Vd.c.					
MPPT voltage range	200...850Vd.c.					
Max input current/per string	13Ax2					
Number of MPP trackers	2					
Number of input string	2					
<b>Battery Input</b>						
Battery Type	Li-Lon					
Battery voltage range	180-700V					
Maximum charge/discharge current	25/25A					
Charge strategy for Li-tou Battery	Self-adaptation to BMS					
<b>Output (AC)</b>						
AC nominal power	4000VA	5000VA	6000VA	8000VA	10000VA	12000VA
Max AC apparent power	5000VA	5500VA	7000VA	8800VA	11000VA	13200VA
Max output current	8A	10A	12A	15A	17A	20A
Nominal AC output	50/60Hz; 400/350					
AC output range	45/55Hz;280~490Vac(Adj)					
Power factor	0.8leading...0.8laging					
Harmonics factor	<3%					
Grid type	3W/N/PE					
Three-phase unbalance output	0~100%	0~100%	0~100%	0~100%	0~100%	0~80%
<b>AC Output ( Back-up )</b>						
Max AC apparent power	4000VA	5000VA	6000VA	8000VA	10000VA	10000VA
Norminal Output Voltage	400/380V					
Norminal Output Frequency	50/60HZ					
Output THDV (@Liuear Load)	<3%					
<b>Efficiency</b>						
Maximum conversion efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
European efficiency	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Max battery to AC Efficiency	97.2%	97.2%	97.4%	97.4%	97.4%	97.4%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
<b>Safety and Protection</b>						
DC reverse-polarity protection	yes					
DC breaker	yes					
DC/AC SPD	yes					
Leakage current protection	yes					
Insulation Impedance Detection	yes					
Residual Current protection	yes					
Output short circuit protection	yes					
Battery reerse connection protection	yes					
<b>General Parameters</b>						
Dimension (W/H/D)	548*444*184mm					
Weight	27 kg					
Operating temperature range °C	-25°C...+60 °C					
Degree of protection	IP65					
Cooling concept	Natural convection					
Topology	Transformerless					
Display	LCD					
Humidity	0-95%,no condensation					
Communication	Standard WiFi;GPRS/LAN(optional)					
Warranty	Standard 5 years; 7/10 years optional					
BMS communication	CAN/RS485					
Meter communication	R485					
<b>Certificates and Approvals</b>						
CQC, VDE-AR-N4105,IEC61727, IEC62116, VDE0124-AR-N0124, EN50549, IEC62109, IEC62477						