



# Thinkpower High Voltage Three Phase Hybrid Inverter

4.0KW/5.0KW/6.0KW/8.0KW/10.0KW/12.0KW



Big lcd display



Three phase unbalanced output



Power export limit



Wifi/GPRS/Lan communication optional



## High Output

Working in 45 degrees high temperature without power degradation



## Accuracy

Anti-backflow control accuracy <20W



## SML/DRED Function

The latest SML/DRED functions are standard for the entire series

## ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform .



EPH Series Three Phase



# THREE PHASE HYBRID INVERTER

pv inverter expert

## 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				13A/13A		
Max.input short circuit per MPPT				18A/18A		
Number of MPP trackers				2		
Strings per MPP tracker				1		
<b>Battery Input</b>						
Battery Type				Li-Ion		
Battery voltage range				130-700V		
Maximum charge/discharge current				25/25A		
Charge strategy for Li-ion 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 (@Linear 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 reverse connection protection				yes		
<b>General Parameters</b>						
Dimension (W/H/D)				516*427*183.5mm		
Weight				26 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				RS485		
<b>Certificates and Approvals</b>						
CQC, VDE-AR-N4105,IEC61727, IEC62116, VDE0124-AR-N0124, EN50549, IEC62109, IEC62477						