



# 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



For more about Thinkpower EPH series hybrid inverter please visit [www.thinkpower.com.cn](http://www.thinkpower.com.cn)

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# 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			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...0.8lagging			
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						