



# Three Phase Hybrid Inverter



Charge controller and inverter integrated



Various working mode programmable



Built-in sound and light alarm function



Three phase loads unbalanced output



IP65 rated for outdoor installation



Remote monitoring, app and web available



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## Technical Data

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

Model	EPH4 KTL	EPH5 KTL	EPH 6KTL	EPH 8KTL	EPH 10KTL	EPH 12KTL
<b>Input(DC)</b>						
Max DC power	5500 W	6500 W	7500 W	9500 W	11500 W	13200 W
Max DC voltage	1000 Vd.c.					
MPPT voltage range	200...850 Vd.c.					
Max input current/per string	13Ax2					
Number of MPP trackers	2					
Number of input string	1					
<b>Battery Input</b>						
Battery Type	Li-Ion					
Battery voltage range	180-650V					
Maximum charge/discharge current	25/25A					
Charge strategy for Li-Ion Battery	Self-adaptation to BMS					
<b>AC Output (On-Grid)</b>						
AC nominal power	4000 VA	5000 VA	6000VA	8000VA	10000 VA	12000 VA
Max AC apparent power	5000 VA	5500 VA	7000 VA	8800 VA	11000VA	13200 VA
Max output current	8 A	10A	12A	15A	17A	20A
Nominal AC output	50/60 Hz ; 400/350					
AC output range	45/55 Hz ; 280~490 Vac (Adj)					
Power factor	0.8 leading ...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	4000 VA	5000 VA	6000 VA	8000 VA	10000 VA	10000 VA
Norminal Output Voltage	400/380 V					
Norminal Output Frequency	50/60 HZ					
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%
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)	548*444*184mm					
Weight	27 kg					
Operating temperature range	-25 °C ... +60 °C					
Degree of protection	IP65					
Cooling concept	Natural convection					
Topology	Transformerless					
Display	LCD					
Humidity	0-95%,no condensation					
Communication	GPRS/WIFI(Optional)					
BMS communication	CAN/RS485					
Meter communication	RS485					
<b>Certificates and Approvals</b>						
CQC,VDE-AR-N4105,VDE0126-1-1,AS4777,IEC61727,IEC62116						