

THREE PHASE HYBRID INVERTER

pv inverter expert

Technology Data

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

Model	EPH4KTL	EPH5KTL	EPH6KTL	EPH8KTL	EPH10KTL	EPH12KTL
Input(DC)						
Max DC power	6000W	7500W	9000W	12000W	15000 W	15000W
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				2		
Battery Input						
Battery Type				Li-Ion		
Battery voltage range				180-700V		
Maximum charge/discharge current				25/25A		
Charge strategy for Li-Ion Battery				Self-adaptation to BMS		
Output(AC)						
AC nominal power	4000 VA	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA
Max AC apparent power	5000 VA	5500 VA	7000 VA	8800 VA	11000 VA	13200 VA
Max output current	8 A	10A	12A	15 A	17A	20 A
Nominal AC output				50/60 Hz ; 400/350		
AC output range				45/55 Hz ; 280~490 Vac (Adj)		
Power factor				0.8 leading ...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%
AC Output (Back-up)						
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 (@Liuear Load)				<3%		
Efficiency						
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%
Safety and protection						
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		
General Parameters						
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		
Communcation				Standard WiFi; GPRS/LAN(optional)		
Warranty				Standard 5 years; 7/10 years optional		
BMS communication				CAN/RS485		
Meter communication				R485		
Certificates and Approvals						
CQC,VDE-AR-N4105,IEC61727,IEC62116,VDE0124-AR-N0124, EN50549, IEC62109, IEC62477						