

Three Phase All-in-One ESS with HV Battery



AG Power High Voltage Three Phase **All-in-One** ESS

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



Asymmetric AC output for both on/off-grid loading



Integrated smart EMS support various power applications



<10ms UPS emergency grid power back-up



Both on & off-grid ports can be paralleled to support bigger loading



Simpler

Quick and easy single person installation
Interconnects with standard household



Safer

Full high voltage protection for battery installation
Superior LiFePO4 Safety Performance
Whole system safety tested and certified by Dekra Germany



Great reliability

Superior LiFePO4 technology with 6,000 cycles at 90% DOD
10 years standard warranty
Modular design promotes redundancy

ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

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



All-in-One ESS



For more about the AG Power High Voltage Three Phase All-in-One, please visit.

www.agpower.cn

Data Sheet

Three Phase All-in-One ESS with HV Battery

Inverter

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

	EPH4KTL	EPH5KTL	EPH6KTL	EPH8KTL	EPH10KTL	EPH12KTL
Output (DC)						
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			2			
Battery loutput (DC)						
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 nomina 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
Nomina 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%
AC Output (Back up)						
Max AC apparent power	4000 VA	5000 VA	6000 VA	8000 VA	10000 VA	10000 VA
Nominal Output Voltage			400/380 V			
Norminal Output Frequency			50/60 HZ			
Output THDV(@Linear 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%
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		-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		R485				
Certificates and Approvals						
CQC,VDE-AR-N4105,VDE0126-1-1,AS4777,IEC61727,IEC62116						

