



EA30/35KTLSI

String inverters

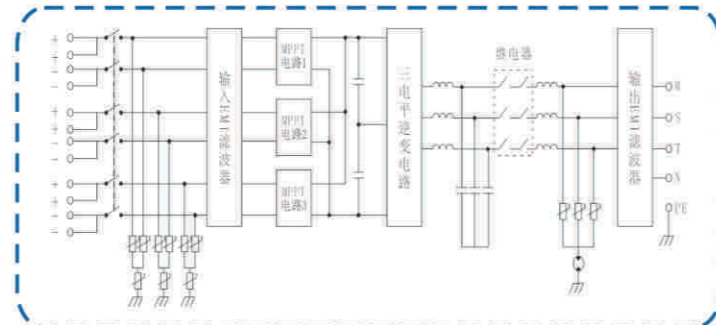
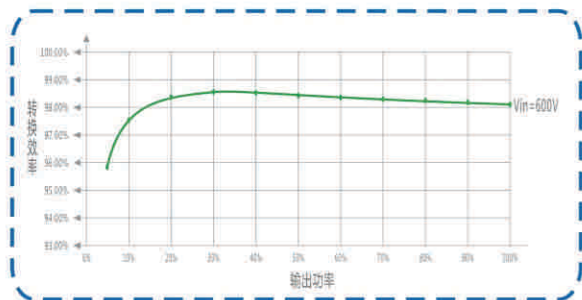
Advantage feature

- High Reliability**
- Long-life film capacitors design, inverter design life of 26 years
 - Natural cooling, waterproof, anti-dust, excellent anti-corrosion ability With positive and negative islanding protection, grid relay redundancy protection, safe and reliable;
 - Multi-layer, step software hardware over current, over voltage, over temperature and short circuit protection
 - 6 strings fault monitoring, quickly positioning the string faults
- Advanced control technology**
- Multi-level inverters with SPWM and SVPWM double modulation, smooth natural switch
 - Self-adaptive control, accommodate rough weak grid environment
 - Current harmonic compensation, grid current harmonic 1%
 - Support reactive and active electric network management and SVG function;
 - Low voltage ride through function

- User friendly and flexible**
- Multi-language LCD display screen, easy to set multi-operation parameter;
 - Inbuilt DC SPD and fuse, avoid DC combiner box to decrease user system cost;
 - Wall-mounted design, whole aluminum molding shell in one time and with DC breaker, safe and easy for maintenance;
 - Outdoor design with IP65;

- More power generation**
- Transformer-less design;
 - Max. Conversion efficiency 98.6%, euro efficiency 98.4%;
 - 3 MPP inputs maximize the power generation ability of the shadowed PV module;

- Wide MPPT voltage range (320-900V), longer time of daily power generation**
- Intelligent MPPT algorithm, maximum power point not affected by the sun light change;
 - Wide working temperature -25~60°C, continuously generating power in high temperature environment.



Technical Data

Specification/Type	EA30KTLSI	EA35KTLSI
DC input parameters		
Max. DC input power(W)	31KW	35KW
Max. DC input voltage(V)	1000V	
Starting voltage(V)	200V	
Max. DC input current	3x21A	
MPPT voltage range(V)	320-900V	
Full load MPPT voltage range(V)	480V-800V	580V-800V
Number of independent MPP inputs	3	
Strings per MPP input	2	
Insulation and voltage resistance of DC input terminal and enclosure	Basic insulation:3000Vdc/1min.	
AC output parameters		
Rated AC output power(W)	30KW	35KW
Rated output voltage (V)	3x380/400/415Vac+N+PE	3x480Vac+PE
Rated output current(A)	3x45.5A/435.5/41.7A	3x43.5A
Max. output current(A)	3x50A	3x50A
Rated Frequency	50/60Hz	
DC component	<0.5% (rated current)	
THD%	<3% (rated power)	
Power Factor	0.8overexcited--0.8underexcited	
Insulation and voltage resistance of AC input terminal and enclosure	Basic insulation:3000Vdc/1min	
Efficiency		
Max. conversion efficiency	98.6%	98.7%
European efficiency	98.4%	98.5%
General parameters		
Standby power	15W	
Topology	Transformer-less	
MTBF	40,000h	
Working temperature	-25~60°C	
Cooling method	Natural cooling	
Max. working altitude	3000m	
Relative humidity	0-100%(non-condensing)	
Protections		
Input reverse polarity protection	Yes	
DC over voltage and over load protection	Yes	
AC output short circuit protection	Yes	
AC overload, over current limitation and protection	Yes	
Grid over/under voltage and unbalance protection	Yes	
Grid over/under frequency protection	Yes	
Leakage protection	Yes	
Lightning protection	Yes	
Islanding protection	Yes	
Insulation resistance testing protection	Yes	
Standards		
Certificates	VDE/TUV/CE/CQC	
Grid safety and anti-islanding	VDE0126-1-1/A1/TUV/VDE-AR-N-4015/BDEW/CEIO-21	
EMC/Emergency decree	EN61000-6-2,EN61000-6-3,EN61000-3-3,EN61000-3-11,EN61000-3-12,EN/IEC62109-1,EN/IEC62109-2	
Mechanical parameter		
Dimensions(WxDxH) £mm£	580x800x260	
Weight(kg)	<65KG	