



## Residential ESS Series

Low-voltage Single-phase  
Hybrid Inverter (Off-grid)

YT-P6000SL4-EU, YT-P11K0SL4-EU



### Features



IP54 protection level



Built-in BMS communication



Compatible with various  
PV modules



Supports up to 12 parallel machines

\*The product diagram is for reference only!



## Technical Parameters

Model	YT-P6000SL4-EU	YT-P11K0SL4-EU
<b>DC input (PV)</b>		
Maximum recommended string power [Wp]	6000	11000
Maximum input voltage [V]	500	500
MPPT Operating voltage range [V]	85-450 (@75V Starting voltage)	85-450 (@75V Starting voltage)
MPPT Quantity	1	2
Number of single-channel MPPT strings	1	1
Single channel MPPT max. current [A]	27	27/13(MAX:40A)
Single MPPT short circuit current [A]	35	37/17.5
<b>AC input (grid)</b>		
Max. output power [W]	11500	16000
Max. output current [A]	50	70
Rated grid voltage [Vac]	220/230/240	220/230/240
Grid frequency [Hz]	50/60	50/60
Grid voltage range	170-280Vac (UPS model) 90-280Vac (load mode)	170-280Vac (UPS model) 90-280Vac (load mode)
<b>Battery parameter(bidirectional)</b>		
Battery type	Lithium Iron Phosphate/Lead Acid	Lithium Iron Phosphate/Lead Acid
Battery voltage range [Vdc]	40~60	40~60
Rated battery voltage [Vdc]	48	48
Max. Charge/discharge current [A]	120/130	210/240
Battery BMS communication	RS485	RS485
<b>AC output (off-grid)</b>		
Rated output power/apparent power	6000W/6000VA	11000W/11000VA
Rated output current [A]	27.3	54.5
Rated output voltage/frequency	220/230/240Vac 50/60Hz	220/230/240Vac 50/60Hz
Parallel capability	Supports up to 12 parallel machines	Supports up to 12 parallel machines
Surge power [VA]	12000	22000
Current total harmonic distortion (@ linear load)	5s<3%	5s<3%
Switching delay	10ms (UPS); 20ms (load)	
<b>Efficiency</b>		
Peak efficiency	98.00%	98.00%
MPPT maximum efficiency	99.90%	99.90%
<b>Protection</b>		
Built-in protection/detection functions	√ Output short circuit protection √ Output overvoltage protection	
Surge protection	PV side: Type III, AC side: Type III	
IP Protection level	Ip54	
<b>General parameters</b>		
Operation temperature range [°C]	-10 ~ 55	-10 ~ 55
Relative humidity range	5%~95%	5%~95%
Operation height/derating	>2000m Derating	>2000m Derating
Standby loss [W]	<10	<10
Installation method	Wall-mounted type	Wall-mounted type
Heat dissipation method	System air cooling	System air cooling
Communication	RS232/RS485/Dry contact/WI-FI	RS232/RS485/Dry contact/WI-FI
Display	LCD	LCD
<b>Size and weight</b>		
Inverter dimensions [W*D*Hmm]	346.6*120*444.7	535*125*630
Net weight [kg]	12.4	25
Package dimensions [W*D*Hmm]	465*240*560	650*240*745
Gross weight [kg]	14.6	27.2
Warranty period	3 years	
<b>Standards &amp; Certification</b>		
Certification	EN 62109-1、EN 62109-2、IEC 61000	

■ Product continues to iterate, specifications may be updated without prior notice.

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