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Company Profile

As an active player in electrical manufacturing industry over 15 years, **ONESTO** is committed to providing quality assured products for application in power distribution, industrial control and new energy etc.

ONESTO is a name of quality that focuses on customer's safety and satisfaction. The company is operated under ISO9001:2015 Quality Management System. All the products are manufactured in conformity with BE,EN,IEC international standards and acquired CE,CB,TUV,Semko, KEMA-KEUR certificates.

ONESTO is undertaking intelligent manufacturing. The factory set up advance automated assembly and testing production line to secure high precision parts dimension, accurate automated assembly, outstanding technical performance and efficient production capacity. Onesto introduced advance ERP system to achieve full quality tracing for each step of raw material incoming, production process and delivery.

ONESTO always pursues constant product innovation to offer customers with comprehensive selection for commercial, industrial, residential project where quality is essential. Onesto owns independent intellectual property rights for its product range including domestic and international patents.

Today, customers over 50 countries are benefited from **ONESTO** products and solution for its reliable protection of electrical systems. As a well recognized partner with renowned companies around the world, **ONESTO** is ready to create new value and competitive advantages with partners for mutual continuously development.

Factory Tour















Inverter & Battery for Photovoltaic Systems

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- SINGLE PHASE AC COUPLED & HYBRID INVERTER
- **O** THREE PHASE HYBRID INVERTER
- SINGLE PHASE &THREE PHASE INVERTER
- **O ENERGY STORAGE BATTERY**



ONESTO®

- Aluminum enclosure with top-ranking high quality components
- Intelligent active monitoring system to provide real-time response and remote trouble shooting
- Extreme low operating voltage, self-studying MPPT technology and patented ECO mode to increase power generation

TÜV CE



O SINGLE PHASE AC COUPLED INVERTER

OST 4.6/5/6KAC



SUPERIOR EFFICIENCY

Max Charge/Discharge efficiency 94% Convenient to retrofit existing grid-connected systems increase the proportion of spontaneous use

HIGH RELIABILITY

With BMS system to ensure high battery life Natural cooling design

INTELLIGENT MAINTENANCE

Compatible with lead-acid batteries and lithium battery energy storage systems Remote configuration and upgrade





O SINGLE PHASE AC COUPLED INVERTER

Model	OST 4K6AC	OST 5KAC	OST 6KAC		
Efficiency					
Max.efficiency (Max. charge/discharge)		94.0%			
Input (BAT)					
Compatible battery type		Lithium-ion / Lead-acid			
Nominal battery voltage		48V			
Battery voltage range		40V-60V			
Max. charge/discharge current	100A / 100A	100A / 100A	120A / 120A		
Max. charge/discharge power	5000W / 5000W	5000W / 5000W	6000W / 6000W		
Lithium battery charge curve		Self-adaption to BMS			
Output (Grid)					
Nominal AC output power	4600W	5000W	6000W		
Max. AC output apparent power	4600VA	5500VA	6000VA		
Max.AC output power (PF=1)	4600W	5500W	6000W		
Max. AC output current	22A	25A	27.2A		
Rated AC voltage		220V			
AC voltage range		150V-300V (Adjustable)			
Rated grid frequency		50Hz / 60Hz			
AC frequency range	45	5Hz-55Hz/55Hz-65Hz (Adjustab	le)		
Grid connection		Single phase	,		
Power factor	> 0.99 @	rated power (Adjustable 0.8 LD	-081G)		
THDI	0.00 @	<3% (Rated Power)	0.0 20)		
Output (Back up)	<3% (Rated Power)				
Nominal output voltage	2201/				
Nominal output frequency	230V				
	4600W	50Hz / 60Hz 5000W	5000W		
Nominal output power	20A	21.7A	21.7A		
Nominal output current	20A		Z1./A		
Transfer time		10ms (typ), 20ms (max)			
THDV		<3% @100% R Load			
Protection		Class			
Protection category		Class I			
Anti-islanding protection		Support			
AC overcurrent protection		Support			
AC short circuit protection		Support			
Surge Arrester		AC Type III			
Leakage current protection		Support			
AC overvoltage category		III			
General					
Max. operation altitude		4000m			
Noise emission		<35dB			
Ingress protection degree		IP65			
Operating temperature range		-25 ℃ -60 ℃			
Relative humidity		0~100%			
Cooling concept		Natural Cooling			
Mounting		Wall bracket			
Dimensions (W*H*D)		515mm*485mm*175mm			
Weight	20Kg				
Battery connection way		Dedicated DC connector			
AC connection way (grid & back up)		Dedicated AC connector			
HMI & COM					
Display		LED+APP			
Communication interface	RS485/CAN (for BMS), RS4	185, USB, DRM/RS485 (for Meter), C	Optional: WiFi/GPRS/LAN		
Certification					
Grid	IEC 61000-1/2/3/4, G99	9, NRS 097, EN 50549-1, IEC 6172	27/62116, CEI 021		
Safety	, , ,	IEC 62109-1/2			
Warranty		5 Years / 10 Years (Optional)			
	l	(-1/			

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.

Specifications are subject to change without advance notice.

SINGLE PHASE HYBRID INVERTER

OST 4600/5000/6000 HB-60, OST 4600/ 5000/6000HB-120



SUPERIOR EFFICIENCY

Max efficiency 97.3%, Battery efficiency 94%
Max. Charge/Discharge Current 120A
Reasonable energy control to increase the proportion of spontaneous use

HIGH RELIABILITY

With BMS system to ensure high battery life Natural cooling design

INTELLIGENT MAINTENANCE

Compatible with lead-acid batteries and lithium battery energy storage systems

Remote configuration and upgrade





SINGLE PHASE HYBRID INVERTER

Model	OST 4600HB-60	OST 4600HB-120	OST 5000HB-60	OST 5000HB-120	OST 6000HB-60	OST 6000HB-12
Efficiency May officiency (B)/ to AC)			07	7 20/		
Max.efficiency (PV to AC) Max.efficiency (BAT to AC)				7.3% 1.0%		
Input (PV)			94	F.U 70		
MAX PVPower			90	00W		
Max PV voltage				50V		
Max input current (input A/input B)				N/15A		
Max short current (input A/input B)			20/	A/20A		
Start operating voltage			S	90V		
MPPT voltage range			70V	-520V		
No.of MPPT trackers				2		
String per MPP tracker				1		
Input (BAT)			1.41.	/1 1 11		
Compatible battery type				n / Lead-acid		
Nominal battery voltage Battery voltage range				18V /-60V		
Max. charge/discharge current	60A/60A	120A/120A	60A/60A	120A/120A	60A/60A	120A/120A
Max. charge/discharge power	3000W/3000W	5000W/5000W	3000W/3000W		3000W/3000W	6000W/6000V
Lithium battery charge curve	300000/300000	300000/300000		otion to BMS	3000007300000	000000000000000000000000000000000000000
Output (Grid)			Ocii-aua _l	DIIOTI TO DIVIS		
Nominal AC output power	4600W	4600W	5000W	5000W	6000W	6000W
Max. AC output apparent power	4600VA	4600VA	5500VA	5500VA	6000VA	6000VA
Max.AC output power (PF=1)	4600W	4600W	5500W	5500W	6000W	6000W
Max. AC output current	22A	22A	25A	25A	27.2A	27.2A
Rated AC voltage			2	20V	•	
AC voltage range			150V-300V	/ (Adjustable)		
Rated grid frequency				/ 60Hz		
AC frequency range				z-65Hz(Adjustable	e)	
Grid connecion	Single phase					
Power factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)					
THDI			<3% (Ra	ted Power)		
Output (Back up)			0	0.01/		
Nominal output voltage				30V		
Nominal output frequency Nominal output power	3000W	400014	1	z/ 60Hz	2000/4/	6000W
Nominal output current	13A	4600W 20A	3000W 13A	5000W 21.7A	3000W 13A	26A
Transfer time	ISA	20A	-	/ 20ms (max)	ISA	20A
THDV				00% R Load		
Protection						
Protection category			CI	ass I		
DC switch			Su	pport		
Anti-islanding protection			Su	pport		
AC overcurrent protection			Su	pport		
AC short circuit protection			Su	pport		
DC reverse connection				pport		
Surge Arrester				I, AC Type III		
Insulation detection				pport		
Leakage current protection			Su	pport		
PV overvoltage category				 		
AC overvoltage category				III		
General			4.0			
Max. operation altitude				00m		
Noise emission				B5dB		
Ingress protection degree				P65		
Operating temperature range Relative humidity				C ~60 ℃ 100%		
Cooling concept						
Mounting	Natural Cooling Wall bracket					
Dimensions (W*H*D)				5mm*175mm		
Weight	20Kg	25Kg	20Kg	25Kg	20Kg	25Kg
PV connection way	20119	20119		25Kg 24/H4	2013	2010
Battery connection way	Dedicated DC connector					
AC connection way (grid & back up)	Dedicated AC connector					
HMI & COM						
Display			LEC)+APP		
Communication interface	RS485/	CAN (for BMS), R	RS485, USB, DRM/), Optional: WiFi/0	SPRS/LAN
Certification		, ,,				
Grid		EC 61000-1/2/3/4	, G99, NRS 097, I	EN 50549-1, IEC	61727/62116, CE	El 021
Safety				2109-1/2		
				ears (Optional)		

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.

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[·] Specifications are subject to change without advance notice.

O THREE PHASE HYBRID **INVERTER**

OST 5000/6000/8000 /10000 HB-T



SUPERIOR EFFICIENCY

Max efficiency 98.4%, Battery efficiency 98% Max. Charge/Discharge Current 50A Reasonable energy control to increase the proportion of spontaneous use

HIGH RELIABILITY

With BMS system to ensure high battery life Natural cooling design

INTELLIGENT MAINTENANCE

Compatible with lead-acid batteries and lithium battery energy storage systems Remote configuration and upgrade





O THREE PHASE HYBRID **INVERTER**

Model	OST 5000 HB-T	OST 6000 HB-T	OST 8000 HB-T	OST 10000 HB-T		
Efficiency May officiency (B)/ to AC)	98.2%	98.2%	98.4%	98.4%		
Max.efficiency (PV to AC) Eur.efficiency (PV to AC)	98.2%	98.2%	97.9%	98.4%		
Max.efficiency (BAT)	97.276		.0%	97.970		
Input (PV)		90.	.070			
MAX PVPower	8000W	9000W	12000W	15000W		
Max PV voltage	30000		00V	10000		
Max input current (input A/input B)	15A/15A	15A/15A	20A/30A	20A/30A		
Max short current (input A/input B)		/20A		A/40A		
MPPT voltage range	207		-950V	14-071		
No.of MPPT trackers			2			
String per MPP tracker	1:	+1		1+2		
Input (BAT)						
Compatible battery type		Lithium-ion	/ Lead-acid			
Nominal battery voltage		200V	-600V			
Battery voltage range		150V	-600V			
Max. charge/discharge current	25A/25A	25A/25A	50A/50A	50A/50A		
Max. charge/discharge power	8000W/5200W	9000W/6300W	12000W/10500W	15000W/10500W		
Lithium battery charge curve		Self-adapt	ion to BMS			
Output (Grid)						
Nominal AC output power	5000W	6000W	W0008	10000W		
Max. AC output apparent power	5500VA	6600VA	8800VA	10000VA		
Max.AC output power (PF=1)	5500W	6600W	W0088	10000W		
Max. AC output current	3*8.3A	3*10A	3*13.3A	3*15.2A		
Rated AC voltage			/ 400V			
AC voltage range			(Adjustable)			
Rated grid frequency			/ 60Hz			
AC frequency range			-65Hz (Adjustable)			
Grid connecion			phase			
Power factor			ljustable 0.8 LD - 0.8 LG)			
THDI		<3% (Rat	ed Power)			
Output (Back up)		2001				
Nominal output voltage			/ 400V			
Nominal output frequency	5000W	6000W	/ 60Hz 8000W	10000W		
Nominal output power	3*7.6A		3*12.2A	3*15.2A		
Nominal output current Transfer time	3 7.0A	3*9.1A		3 15.2A		
THDV		() . ,	20ms (max)			
Protection		<3% (R L0ad),	5% (RCD Load)			
Anti-islanding protection	1	Sur	nort			
AC overcurrent protection			pport			
AC short circuit protection			oport oport			
AC over-voltage protection			pport			
Surge Arrester			, AC Type II			
Insulation detection		71	pport			
GFCI			pport			
AFCI			ional			
RSD		·	ional			
General		Opt				
Max. operation altitude		400	00m			
Noise emission)dB			
Ingress protection degree			265			
Operating temperature range			C~45℃			
Relative humidity		0~	100%			
Cooling concept	Natural Cooling					
Mounting		Wall b	racket			
Dimensions (W*H*D)		530mm*550)mm*212mm			
Weight	26Kg 29Kg					
PV connection way	MC4 / H4					
Battery connection way	Dedicated DC connector					
HMI & COM						
Display		LED+APP (Bluetooth)				
Communication interface	BMS (CAN/RS485), Optional:	WiFi/GPRS/4G/Ethernet, DI ([DRM/RCR) / Meter (RS485), 1*	DO, USB (Firmware upgra		
Certification						
Grid	IEC 61000)-1/2/3/4, G99, NRS 097, E	N 50549-1, IEC 61727/621	16, CEI 021		
Safety		IEC 621				
Warranty		F V / 10 V	ears (Optional)			

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.



ONESTO°

O ENERGY STORAGE BATTERY

EB5000



FEATURES

- Assembly freely in series or parallel Up to 8S8P (409.6V326.4kWh)
- High energy eciency Energy eciency (charge and discharge) > 97%
- High Rate Charge & Discharge Max charge current 60A, Max discharge current 80A
- More Safety Dual hardware & Triple software protection
- Safe and Reliable BMS Relay design instead of mosfet
- Long Life Reliable LFP cells,Cycle life >6000 cycles
- High Reliability Key devices (Relay,Fuse) approved by UL and IEC
- More Smart With digital monitor system App with WIFI
- Smart Design & Easy installation Plug in & off
- More Quiet Without fan, more quiet and reduce the risk of fan failure



TECHNICAL DATA

Model		EB5000		
Total Energy*		5.1kWh		
Usable Energy(DC)*		4.8kWh		
Nominal Dis-/Charge F	Power	3.0kW		
Peak Power(Only Disc	harge)	6kW for 3s		
Constant Current(Only	Discharge)	80A		
Voltage		48~56Vd.c		
Nominal Voltage		51.2Vd.c		
Nominal Current		60A		
Max. Charge Voltage		57.6Vd.c		
Weight		45kg		
Dimension(mm)		500*448*135mm		
Max.recommended DC	DD	90%		
Operating Condition		Indoor		
Operating	Charge	From 0~50°C		
Temperature	Discharge	From -10~55°C		
WIFI Frequency Range	NIFI Frequency Range 2400MHz~2483MHz			
Humidity		< 60%(No condensed water)		
Over Voltage Category	/	II		
Cooling Type		Natural cooling		
Case Material		Metal		
Color		Black or White		
Installation		Wll mounting/Ground Installation		
IP rating		IP 20		
Protective Class				
Max. Connection Num	ber	8S/4P		
Warranty		10 years		
Life Span		>15 years		
Communication		CAN/ RS485		
Protection Mode		Dual hardware protection		
Battery Protection		Over-current / Over-voltage / Short circuit / Under-voltage / Over temperature		
Safety		Cell UL 1973 CE / IEC62619		
Hazardous Material Cla	assification	9		
Transportation		UN 38.3		

Testing conditions based on temperature 25 at the beginning of life.



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ONESTO

ES Series



ES5000

5kWh/LV



5.8kWh/LV





ES10K 10kWh/LV

ENERGY STORAGE

- Digital monitoring system APP
- High inverter compatibility
- Reliable LFP cells
- CANbus standard connection
- Natural cooling system
- Scalable up to 20-40kWh (4 Parallel)
- 10 Years limited warranty
- IP65

TECHNICAL PROPERTIES

Model		ES5000 5kWh/LV	ES5800 5.8kWh/LV	ES10K 10kWh/LV	
Total Energy(DC)*		5.1kWh	5.8kWh	10kWh	
Usable Energy(DC)*		4.6kWh	5.3kWh	9.2kWh	
Nominal Dis-/Charge	Power	3.0kW	2.75kW	4.6kW	
Peak Power(Only Dis	scharge)	6kW for 3s	7kW for 3s	10kW for 3s	
Constant Current(On	ly Discharge)	80A	100A	120A	
Voltage		48~56Vd.c	42~54Vd.c	48~56Vd.c	
Nominal Voltage		51.2Vd.c	48Vd.c	51.2Vd.c	
Nominal Current		60A	57A	90A	
Max. Charge Voltage		57.6Vd.c	54.0Vd.c	57.6Vd.c	
Weight		55kg	66kg	101kg	
Dimension(mm)		525*537*238mm	525*635*238mm	525*825*238mm	
Max.recommended D	OOD	90%			
Operating Condition					
Operating	Charge	From 0~50°C From 0~45°C		From 0~50°C	
Temperature	Discharge	From -10~55°C	From -10~50°C	From -10~55°C	
WIFI Frequency Ran	ge	2400MHz~2483MHz			
Humidity			4~100%(No condensed water)		
Pollution Degree			3		
Over Voltage Catego	ry		II		
Cooling Type			Natural cooling		
Case Material			Metal + Plastic		
Color			Black+Silver grey or White		
Installation			Free standing		
IP rating			IP 65		
Protective Class			I		
Max. Number of Para	allel or Series		4		
Warranty			10 years		
Life Span		>15 years			
Communication		CAN/ RS485			
Protection Mode		Triple hardware protection			
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature			
Safety		Cell UL 1973 CE Pack TUV/CE CE			
Hazardous Material (Classification		9		
Transportation			UN 38.3		

Testing conditions based on temperature 25°C at the beginning of life.



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O SINGLE PHASE & SINGLE MPPT INVERTER

OST 2/3/3K6TL-S15

Application: Family Use



SUPERIOR EFFICIENCY

Maximum efficiency 97.8% String current 15A, compatible with high power modules 150% PV configuration, 110% output overload

HIGH RELIABILITY

IP65 waterproof and dustproof, C5 anti-corrosion Compatible with wide power grid voltage and high harmonic power grid environment DC /AC SPD optional, AFCI detection optional

INTELLIGENT MAINTENANCE

Remote configuration and upgrade Supports export power control





O SINGLE PHASE & SINGLE MPPT INVERTER

Model	OST 2KTL-S15	OST 3KTL-S15	OST 3K6TL-S15			
Efficiency						
Max. Efficiency	97.5%	97.8%	97.8%			
European Efficiency	96.5% 96.8% 96.8%					
Input(PV)						
Max. Input Voltage		500V				
Max. PV configuration (STC)		150%				
Rated Input Voltage		360V				
Max. Input Current		15A				
Max.Short Circuit Current		20A				
Start Input Voltage		70V				
MPPT Operating Voltage Range		50V-490V				
Max. Number of PV Strings		1				
No. of MPPTs		1				
Output(Grid)						
Rated AC Active Power	2,000W	3,000W	3,600W			
Max. AC Apparent Power	2,200VA	3,300VA	3,600VA			
Max. AC Active Power (PF=1)	2,200W	3,300W	3,600W			
Max. AC Output Current	10A	15A	16A			
Rated AC Voltage	10/1	220V/230V, L+N+PE	10/1			
AC Voltage Range ①		160V-300V (Adjustable)				
Rated Grid Frequency		50Hz / 60Hz				
Grid Frequency Range ②	45Hz-55Hz / 55Hz-65Hz (Adjustable)					
THDI	43112		labie)			
=		<3% (Rated Power) <0.5%In				
DC Current Injection	>0.00 Da	***************************************	D 0 0 1 C)			
Power Factor	>0.99 Ka	ted power (Adjustable 0.8 L	.D-0.0 LG)			
Protection		Common and				
DC switch		Support				
Anti-islanding protection		Support				
AC overcurrent protection		Support				
AC short circuit protection		Support				
DC reverse connection		Support				
Surge Arrester	DC	Type III (Optional) / AC Typ	pe III			
Insulation detection		Support				
Leakage current protection		Support				
General						
Topology		Transformerless				
IP Rating		IP65				
Night Self Consumption		<1W				
Cooling		Natural cooling				
Operating Temperature Range		-25°C-60°C				
Relative Humidity Range		0-100%				
Max. Operating Altitude	4000m					
Noise (typical)	30dB					
Dimensions (W*H*D)	320mm*344mm*137mm					
Weight	6.5Kg					
HMI & COM						
Display	Wireless & APP+LED, LCD (Optional)					
Communication	Optional: WiFi / GPRS / RS485					
Certification						
Safety		IEC62109-1/2				
Grid Code	IEC 6100	00-1/2/3/4, IEC 61727/62116, C	EI 021			
Warranty		5 Years				
	5 Years					

Remarks: • ①②The range of output voltage and frequency may vary depending upon different grid codes.

[·] Specifications are subject to change without advance notice.

OST 4/5/6KTL-D15

Application: Family Use



O SINGLE PHASE & DUAL MPPT INVERTER

SUPERIOR EFFICIENCY

Maximum efficiency 98.2% String current 15A, compatible with high power modules 150% PV configuration, 110% output overload

HIGH RELIABILITY

IP65 waterproof and dustproof, C5 anti-corrosion
Compatible with wide power grid voltage and high harmonic power grid environment
DC /AC SPD optional, AFCI detection optional

INTELLIGENT MAINTENANCE

Remote configuration and upgrade Supports export power control





O SINGLE PHASE & DUAL MPPT INVERTER

Model	OST 4KTL-D15	OST 5KTL-D15	OST 6KTL-D15		
Efficiency					
Max. Efficiency	98.0%	98.2%	98.2%		
European Efficiency	97.0%	97.0% 97.3% 97.4%			
Input(PV)					
Max. Input Voltage		550V			
Max. PV configuration (STC)	150%				
Rated Input Voltage		360V			
Max. Input Current		30A (2*15A)			
Max.Short Circuit Current		40A (2*20A)			
Start Input Voltage		90V			
MPPT Operating Voltage Range		70V-540V			
Max. Number of PV Strings		2 (1/1)			
No. of MPPTs		2			
Output(Grid)					
Rated AC Active Power	4,000W	5,000W	6,000W		
Max. AC Apparent Power	4,400VA	5,500VA	6,000VA		
Max. AC Active Power (PF=1)	4,400W	5,500W	6,000W		
Max. AC Output Current	20A	25A	27.3A		
Rated AC Voltage		220V/230V, L+N+PE	,		
AC Voltage Range ①		160V-300V (Adjustable)			
Rated Grid Frequency		50Hz / 60Hz			
Grid Frequency Range ②	45H:	z-55Hz / 55Hz-65Hz (Adjust	table)		
THDI	1011	<3% (Rated Power)	au io j		
DC Current Injection		<0.5%ln			
Power Factor	>0 99 Ra	ted power (Adjustable 0.8 L	D-0.81G)		
Protection	7 0.00 1 10	tod power (/ tajdotable 0.0 E	.5 0.0 20)		
DC switch		Support			
Anti-islanding protection		Support			
AC overcurrent protection		Support			
AC short circuit protection		Support			
DC reverse connection		Support			
Surge Arrester	DC.	Type III (Optional) / AC Typ	ne III		
Insulation detection	DO		De III		
Leakage current protection		Support			
General		Support			
		Transformerless			
Topology IP Pating		IP65			
IP Rating		1P05 <1W			
Night Self Consumption					
Cooling		Natural cooling			
Operating Temperature Range		-25℃-60℃			
Relative Humidity Range		0-100%			
Max. Operating Altitude	4000m				
Noise (typical)	30dB				
Dimensions (W*H*D)	350mm*347mm*137mm				
Weight	8.5Kg				
HMI & COM					
Display	Wireless & APP+LED, LCD (Optional)				
Communication	Optional: WiFi / GPRS / RS485				
Certification					
Safety		IEC62109-1/2			
Grid Code	IEC 6100	00-1/2/3/4, IEC 61727/62116, C	EI 021		
Warranty		5 Years			

Remarks: • ①②The range of output voltage and frequency may vary depending upon different grid codes.

Specifications are subject to change without advance notice.

O SINGLE PHASE & DUAL MPPT INVERTER

OST 7/8/10KTL-D15

Application: Family Use



SUPERIOR EFFICIENCY

Maximum efficiency 98.2% String current 18A, compatible with high power modules 150% PV configuration, 110% output overload

HIGH RELIABILITY

IP65 waterproof and dustproof, C5 anti-corrosion
Compatible with wide power grid voltage and high harmonic power grid environment
DC /AC SPD optional, AFCI detection optional

INTELLIGENT MAINTENANCE

Remote configuration and upgrade Supports export power control





O SINGLE PHASE & DUAL MPPT INVERTER

Model	OST 7KTL-D15	OST 8KTL-D15	OST 10KTL-D15		
Efficiency					
Max. Efficiency	98.2%	98.2%	98.2%		
European Efficiency	97.4%	97.5%	97.6%		
Input(PV)					
Max. Input Voltage		550V			
Max. PV configuration (STC)		150%			
Rated Input Voltage		360V			
Max. Input Current	36A (2*18A)	48A (2*15A+	·18A)		
Max.Short Circuit Current	52A (2*26A)	66A (2*20A+	,		
Start Input Voltage	,	90V	,		
MPPT Operating Voltage Range		70V-540V			
Max. Number of PV Strings	2 (1/1)	3 (2/1)			
No. of MPPTs	_ ()	2			
Output(Grid)		_			
Rated AC Active Power	7,000W	8,000W	10,000W		
Max. AC Apparent Power	7,700VA	8,800VA	10,000VA		
Max. AC Active Power (PF=1)	7,700W	8,800W	10,000W		
Max. AC Output Current	35A	40A	45.5A		
Rated AC Voltage	337	220V/230V, L+N+PE	40.0/1		
		160V-300V (Adjustable)			
AC Voltage Range ①		` · ·			
Rated Grid Frequency	4511	50Hz / 60Hz			
Grid Frequency Range ②	4504	z-55Hz / 55Hz-65Hz (Adjust	able)		
THDI		<3% (Rated Power)			
DC Current Injection		<0.5%ln	D 0 0 1 0)		
Power Factor	>0.99 Ra	ted power (Adjustable 0.8 L	D-0.8 LG)		
Protection					
DC switch		Support			
Anti-islanding protection		Support			
AC overcurrent protection		Support			
AC short circuit protection		Support			
DC reverse connection		Support			
Surge Arrester	DC	Type III (Optional) / AC Typ	e III		
Insulation detection		Support			
Leakage current protection		Support			
General					
Topology		Transformerless			
IP Rating		IP65			
Night Self Consumption		<1W			
Cooling		Natural cooling			
Operating Temperature Range		-25°C-60°C			
Relative Humidity Range		0-100%			
Max. Operating Altitude	4000m				
Noise (typical)	30dB				
Dimensions (W*H*D)	400mm*450mm*170mm				
Weight	16Kg				
HMI & COM	Tony				
Display	Wireless & APP+LED, LCD (Optional)				
Communication	Optional: WiFi / GPRS / RS485				
Certification					
Safety		IEC62109-1/2			
Grid Code	IEC 61000-	-1/2/3/4, IEC 61727/62116, CEI	021		
Warranty	.25 21000	5 Years	-		

Remarks: • ①②The range of output voltage and frequency may vary depending upon different grid codes.

Specifications are subject to change without advance notice.

OST 5/6/8/10/12/ 15KTL

Application: Small-sized Industrial and Residential Use



O THREE PHASE & DUAL MPPT INVERTER

SUPERIOR EFFICIENCY

Maximum efficiency 98.3%

Max String Current 20A, compatible with 600W+ modules 150% PV configuration, 110% output overload

HIGH RELIABILITY

Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti-corrosion DC /AC SPD, AFCI detection optional

Compatible with wide power grid voltage and high harmonic power grid environment

INTELLIGENT MAINTENANCE

App quick commissioning
Remote configuration and upgrade
Supports export control





O THREE PHASE & DUAL MPPT INVERTER

Model	OST 5KTL	OST 6KTL	OST 8KTL	OST 10KTL	OST 12KTL	OST 15KT
Efficiency						
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.3%	98.3%
European Efficiency	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%
Input (PV)				·	·	
Max. Input Voltage			110	00V		
Max. PV configuration			15	0%		
Rated Input Voltage			62	0V		
Max. Input Current		2*	15A		2*15	\+15A
Max.Short Circuit Current		2*:	20A		2*20	\+20A
Start Input Voltage			18	0V		
MPPT Operating Voltage Range			160V-	1000V		
Max. Number of PV Strings		2 ((1/1)		3 (2	2/1)
No. of MPPTs				2	,	,
Output (Grid)						
Rated AC Active Power	5000W	6,000W	8,000W	10,000W	12,000W	15,000W
Max. AC Apparent Power	5500VA	6,600VA	8,800VA	11,000VA	13,200VA	16,500V
Max. AC Active Power (PF=1)	5500W	6,600W	8,800W	11,000W	13,200W	16,500W
Max. AC Output Current	3*8.4A	3*10.1A	3*13.4A	3*16.8A	3*20.2A	3*25.3A
Rated AC Voltage				15V, 3W+N+PE		
AC Voltage Range ①				(Adjustable)		
Rated Grid Frequency				/ 60Hz		
Grid Frequency Range ②		4	5Hz-55Hz / 55Hz		e)	
THDI		7		ted Power	0)	
DC Current Injection				ited Current		
Power Factor		> 0 00	Rated power (Ad		0.81 <i>G</i>)	
Protection		7 0.99	rtated power (Ad	justable 0.0 LD -	0.0 LO)	
DC switch			Sun	port		
Anti-islanding protection				port		
AC overcurrent protection				port		
AC short circuit protection				port		
DC reverse connection						
		AC Type III /		port	as II antional)	
Surge Arrester		AC Type III (Type II optional) / DC Type III (Type II optional)				
Insulation detection	Support Support					
String current detection						
Leakage current protection			Sup	port		
General						
Topology				rmerless		
IP Rating				66		
Night Self Consumption				W		
Cooling	Natural cooling					
Operating Temperature Range	-25 °C -60 °C					
Relative Humidity Range	0-100%					
Max. Operating Altitude	4000m					
Noise	<30dB					
Dimensions (W*H*D)	398mm*460mm*190mm					
Weight	23Kg					
HMI & COM						
Display	Wireless & APP +LED, LCD (Optional)					
Communication	RS485, Optional: WiFi / GPRS / 4G					
Certification						
Safety			IEC62	109-1/2		
Grid Code		IEC 61	000-1/2/3/4, IEC	61727/62116, CE	El 021	
Warranty			5 Y	ears		

Remarks: • ①② The range of output voltage and frequency may vary depending upon different grid codes.

• Specifications are subject to change without advance notice.

OST 10/15KTL, OST 17/20/22/ 25KTL

Application: Small-sized Industrial and Residential Use



O THREE PHASE & DUAL MPPT INVERTER

SUPERIOR EFFICIENCY

Maximum efficiency 98.4%

Max String Current 20A, compatible with 600W+ modules
150% PV configuration, 110% output overload

HIGH RELIABILITY

Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti-corrosion DC /AC SPD, AFCI detection optional Compatible with wide power grid voltage and high harmonic power grid environment

INTELLIGENT MAINTENANCE

App quick commissioning

Remote configuration and upgrade

Supports export control





O THREE PHASE & DUAL MPPT INVERTER

Model	OST 10KTL	OST 15KTL	OST 17KTL	OST 20KTL	OST 22KTL	OST 25KTI
Efficiency				ı		
Max. Efficiency	98.3%	98.4%	98.4%	98.4%	98.4%	98.4%
European Efficiency	97.8%	98.0%	98.0%	98.0%	98.0%	98.0%
Input (PV)						
Max. Input Voltage				00V		
Max. PV configuration			15	0%		
Rated Input Voltage			62	20V		
Max. Input Current	30A+15A			2*30A		
Max.Short Circuit Current	40A+20A			2*40A		
Start Input Voltage			18	30V		
MPPT Operating Voltage Range			160V-	-1000V		
Max. Number of PV Strings	3 (2/1)			4 (2/2)		
No. of MPPTs				2		
Output (Grid)						
Rated AC Active Power	10,000W	15,000W	17,000W	20,000W	22,000W	25,000W
Max. AC Apparent Power	11,000VA	16,500VA	18,700VA	22,000VA	24,200VA	25,000VA
Max. AC Active Power (PF=1)	11,000W	16,500W	18,700W	22,000W	24,200W	25,000W
Max. AC Output Current	3*16.8A	3*25.3A	3*28.6A	3*33.7A	3*37A	3*39.8A
Rated AC Voltage			380V / 400V / 4	15V, 3W+N+PE		
AC Voltage Range ①			260V-510V	(Adjustable)		
Rated Grid Frequency			50Hz	/ 60Hz		
Grid Frequency Range ②			45Hz-55Hz / 55Hz	z-65Hz (Adjustable	e)	
THDI			<3%@Ra	ited Power	•	
DC Current Injection				ated Current		
Power Factor		> 0.99	Rated power (Ad		0.8 LG)	
Protection					•	
DC switch			Suj	port		
Anti-islanding protection				pport		
AC overcurrent protection				pport		
AC short circuit protection				pport		
DC reverse connection				pport		
Surge Arrester		AC Type III	(Type II optional)		e II optional)	
Insulation detection				pport	р,	
String current detection				ional		
Leakage current protection				pport		
General			- Cu _l	эрогс		
Topology			Transfo	rmerless		
IP Rating				266		
Night Self Consumption				IW		
Cooling	Natural cooling			Fan cooling		
Operating Temperature Range	rvaturar cooling		25℃	ŭ		
Relative Humidity Range		-25 C -60 C				
Max. Operating Altitude	0-100%					
Noise	4000m					
	<45dB 209mm*460mm*400mm					
Dimensions (W*H*D)	398mm*460mm*190mm					
Weight	23Kg					
HMI & COM	Mirolana 9 ADD 11 ED 10D (Ontional)					
Display		Wireless & APP +LED, LCD (Optional) RS485, Optional: WiFi / GPRS / 4G				
Communication	RS485, Optional: WiFi / GPRS / 4G					
Certification				100 110		
Safety		.=.		2109-1/2		
Grid Code		IEC 6	1000-1/2/3/4, IEC		:1 021	
Warranty			5 Y	ears		

Remarks: • ①② The range of output voltage and frequency may vary depending upon different grid codes.

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Specifications are subject to change without advance notice.

O THREE PHASE & DUAL MPPT INVERTER

OST 28/30KTL

Application: Small-sized Industrial and Residential Use



SUPERIOR EFFICIENCY

Maximum efficiency 98.6% String current 13.5A, compatible with high power modules 150% PV configuration, 110% output overload

HIGH RELIABILITY

Integarted type II DC/AC SPD APP for local settings & display

INTELLIGENT MAINTENANCE

Remote configuration and upgrade Supports export control





O THREE PHASE & DUAL MPPT INVERTER

Model	OST 28KTL	OST 30KTL		
Efficiency				
Max. Efficiency	98.6%	98.6%		
European Efficiency	98.3%	98.3%		
Input(PV)				
Max. Input Voltage	100	00V		
Max. PV configuration (STC)	150	0%		
Rated Input Voltage	620	0V		
Max. Input Current	81A (2*	(40.5A)		
Max.Short Circuit Current	90A (2	2*45A)		
Start Input Voltage	250	0V		
MPPT Operating Voltage Range	180V-	-960V		
Max. Number of PV Strings	6 (3	3/3)		
No. of MPPTs	2	2		
Output(Grid)				
Rated AC Active Power	28,000W	30,000W		
Max. AC Apparent Power	30,800VA	33,000VA		
Max. AC Active Power (PF=1)	30,800W	33,000W		
Max. AC Output Current	3*45A	3*48A		
Rated AC Voltage	380V/400V,	3W+N+PE		
AC Voltage Range ①	277V-520V	(Adjustable)		
Rated Grid Frequency	50Hz /			
Grid Frequency Range ②	45Hz-55Hz / 55Hz-	-65Hz (Adiustable)		
THDI	<3% (Rate	· •		
DC Current Injection	<0.5	•		
Power Factor	>0.99 Rated power (Adj	ustable 0.8 LD- 0.8 LG)		
Protection	1			
DC switch	Sup	port		
Anti-islanding protection	Sup			
AC overcurrent protection	Sup	-		
AC short circuit protection	Sup			
DC reverse connection	Sup			
Surge Arrester	DC Type II /			
Insulation detection	Sup			
Leakage current protection	Sup			
General	Cup	port		
Topology	Transfor	merless		
IP Rating	IPO			
Night Self Consumption	<1			
Cooling	Fan co			
Operating Temperature Range	-25°C			
Relative Humidity Range	0-10			
Max. Operating Altitude				
Noise	4000m <50dB			
Dimensions (W*H*D)	<50ab 555mm*446mm*270mm			
Weight				
HMI & COM	41Kg			
Display	Wireless & APP+LED LCD (Ontional)			
Communication	Wireless & APP+LED, LCD (Optional) RS485, Optional: WiFi / GPRS / 4G / LAN			
Certification	RS485, Optional: WiFi / GPRS / 4G / LAN			
Safety	IEC62	109-1/2		
Grid Code				
Warranty	IEC 61000-1/2/3/4, IEC 61727/62116, CEI 021 5 Years			

Remarks: • ①②The range of output voltage and frequency may vary depending upon different grid codes.

· Specifications are subject to change without advance notice.

O THREE PHASE & QUAD MPPT INVERTER

OST 50/60KTL

Application: Large-scale Industrial and Commercial Sites



SUPERIOR EFFICIENCY

Maximum efficiency 99.0%

String current 13A, compatible with high power modules
150% PV configuration, 110% output overload

HIGH RELIABILITY

Integrated type II DC/AC SPD APP for local settings & display High quality components use

INTELLIGENT MAINTENANCE

String level I/V detect (Optional)
Remote configuration and upgrade
Supports export control





O THREE PHASE & QUAD MPPT INVERTER

odel	OST 50KTL	OST 60KTL
ficiency		
ax. Efficiency	99.0%	
ıropean Efficiency	98.5%	
out(PV)		
ax. Input Voltage	1100V	
ax. PV configuration (STC)	150%	
ated Input Voltage	620V	
ax. Input Current	130A (39A/39A/26A/26A)	156A (39A/39A/39A/39A)
ax.Short Circuit Current	150A (45A/45A/30A/30A)	180A (45A/45A/45A/45A)
art Input Voltage	250V	
PPT Operating Voltage Range	200V-1000V	
ax. Number of PV Strings	10 (3/3/2/2)	12 (3/3/3/3)
. of MPPTs		4
tput(Grid)		
ated AC Active Power	50,000W	60,000W
x. AC Apparent Power	55,000VA	66,000VA
x. AC Active Power (PF=1)	55,000W	66,000W
x. AC Output Current	3*76A	3*92A
ed AC Voltage		/, 3W+N+PE
Voltage Range ①	277V-520V (Adjustable)	
ed Grid Frequency	50Hz / 60Hz	
I Frequency Range ②	45Hz-55Hz / 55Hz-65Hz (Adjustable)	
)	<3% (Rated Power)	
Current Injection	<0.5% (National Forest)	
ver Factor	>0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)	
ection	70.33 Nated power (Au	justable 0.0 LD - 0.0 LO)
switch	Sur	oport
	Support Support	
i-islanding protection	Support	
overcurrent protection short circuit protection	Support	
•		
reverse connection	Support DC Type II / AC Type II	
ge Arrester	**	
ulation detection	Support Support	
akage current protection	Sup	oport
elegy	Transfa	rmorloco
ology	Transformerless IP65	
ating		
ht Self Consumption	<1W	
oling	Fan cooling	
erating Temperature Range	-25 C -60 C	
ative Humidity Range	0-100%	
k. Operating Altitude	4000m	
e	<62dB	
ensions (W*H*D)		5mm*275mm
ght	73Kg	74Kg
I & COM	140 1 0 25=	ED 100 (0 :: ")
play	Wireless & APP+LED, LCD (Optional)	
mmunication	RS485, Optional: WiFi / GPRS / 4G / LAN	
rtification		
ety	IEC62109-1/2	
d Code	IEC 61000-1/2/3/4, IEC 61727/62116, CEI 021	
rranty	5 Years	

Remarks: • ①②The range of output voltage and frequency may vary depending upon different grid codes.

• Specifications are subject to change without advance notice.