

# 户用光伏储能一体逆变器 单/三相混合逆变器

**昆宇电源**  
**COSPOWERS**



参数 / 型号		单相机			三相机			
离网参数	机型	3000S	3600S	5000S	10000T	12000T	15000T	20000T
	额定输出功率	3000w	3600W	5000w	10kw	12kw	15kw	20kw
	额定电压	220V/230V/240V			3/N/PE,220/380Vac,230/400Vac			
	额定频率	50/60Hz						
	额定输出电流	13.6A	16.4A	22.7A	15A	18A	22.5A	30A
	输出THDu	<2%			<3%			
并网参数	额定输出功率	3500W	3600W	6000W	10kW	12kW	15kW	20kW
	最大输出电流	13.6A	16.4A	22.7A	16A	20A	24A	32A
	额定并网电压	220V/230V/240V			3/N/PE,220/380V,230/400V,240/415V			
	最大电网输入电流	16.4A	22.7A	27.2A	30A	35A	44A	60A
光伏输入	电网电压范围	184~264V			184~276V			
	最大输入功率	4500Wp	6000Wp	8000Wp	15000Wp	18000Wp	22500Wp	30000Wp
	启动电压	95V			220V			
	最大输入电压	600V			1000V			
	MPPT电压运行范围	80~550V			180~960V			
	满载MPPT电压范围	350~550V			250~850V	290~850V	350~850V	450~850V
	MPPT数量	2			2			
	每路MPPT最大输入组传输	1			2			
电池参数	额定输入电压	360V			600V			
	最大输入电流	13A/13A			25A/25A			
	电池类型	锂电池			锂电池			
	额定电压	48V			根据实际工况配置			
	电池电压范围	42~60V			180~800v			
效率	最大持续充放电电流	75A	85A	100A	25A/25A			
	最大效率	97.5%	97.5%	98%	98.20%			
	欧洲效率	97.2%	97.2%	97.5%	97.70%			
	最大电池充放电效率	95.2%			97.80%			
	尺寸(W*D*H)	500*470*180mm			573*509*219mm			
	重量	21Kg			35Kg			
	噪音	<25dB(A)			<45dB(A)			
	工作温度	-25°C~+60°C			-25°C~+60°C			
	冷却方式	自然冷却			强迫风冷			
	防护等级	IP65			IP65			
	人机交互方式	H5/LED/APP/WIFI/4G/蓝牙						
常规参数	通讯接口	RS485/CAN/DRED/DO/Parallel port						
	保护	直流开关;直流绝缘检测;残余电流检测;防孤岛保护;过压过流保护;交流短路保护; 过电压等级:交流侧: III级, 电池及PV: II级;浪涌保护;防雷保护;TYPE II;输入反接保护 (IP&电池)			直流开关;过压过流保护;交流短路保护;防孤岛保护;残余电压检测;PV绝缘 阻抗检测;浪涌保护: II级;防雷保护;输入反接保护 (PV&电池)			
	安规认证	IEC62109-1,IEC62109-2,EN62109-1,EN62109-2						
	EMC认证	EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4						
	并网认证	VDE-AR-N4105,G98,G99,CEI0-21,EN50549,NRS097-2-1,AS4777.2,R25						



深圳昆宇电源科技有限公司

网址: WWW.COSPOWERS.COM

地址: 深圳市宝安区燕罗街道罗田社区第三工业区广田路2号

电话: 0755-33185898

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# Household photovoltaic energy storage integrated inverter

**COSPOWERS**

## SINGLE/THREE-PHASE HYBRID INVERTER



Parameters/ Model		Single phase			Three phase				
Off grid parameters	Model	3000S	3600S	5000S	10000T	12000T	15000T	20000T	
	Rated output power	3000w	3600W	5000w	10kw	12kw	15kw	20kw	
	Rated voltage	220V/230V/240V			3/N/PE,220/380Vac,230/400Vac				
	Rated frequency	50/60Hz							
	Rated output current	13.6A	16.4A	22.7A	15A	18A	22.5A	30A	
	Output THDu	<2%			<3%				
On-grid parameters	Rated output power	3500W	3600W	6000W	10kW	12kW	15kW	20kW	
	Max output current	13.6A	16.4A	22.7A	16A	20A	24A	32A	
	Rated on grid voltage	220V/230V/240V			3/N/PE,220/380V,230/400V,240/415V				
	Max grid input current	16.4A	22.7A	27.2A	30A	35A	44A	60A	
PV output	Grid voltage range	184~264V			184~276V				
	Max input power	4500Wp	6000Wp	8000Wp	15000Wp	18000Wp	22500Wp	30000Wp	
	Start voltage	95V			220V				
	Max input voltage	600V			1000V				
	MPPT voltage operating range	80~550V			180~960V				
	Full load MPPT voltage range	350~550V			250~850V	290~850V	350~850V	450~850V	
	MPPT quantity	2			2				
	Maximum MPPT input group transmission per channel	1			2				
Battery parameters	Rated input voltage	360V			600V				
	Max input current	13A/13A			25A/25A				
	Battery type	Lithium battery			Lithium battery				
	Rated voltage	48V			Configuration according to actual working conditions				
Efficiency	Battery voltage range	42-60V			180-800v				
	Max continuous charge discharge current	75A	85A	100A	25A/25A				
	Max efficiency	97.5%	97.5%	98%	98.20%				
	European efficiency	97.2%	97.2%	97.5%	97.70%				
	Max battery charge discharge efficiency	95.2%			97.80%				
	Size (W*D*H)	500*470*180mm			573*509*219mm				
	Weight	21Kg			35Kg				
	Noise	<25dB(A)			<45dB(A)				
	Operating temperature	-25°C~+60°C			-25°C~+60°C				
	Cooling method	Natural cooling			Forced air cooling				
Common parameters	Protection level	IP65			IP65				
	Man-machine interaction mode	H5/LED/APP/WIFI/4G/blue tooth							
	Communication interface	RS485/CAN/DRED/DO/Parallel port							
	Protection	DC switch; DC insulation testing; Residual current detection; Anti-island protection; Overvoltage and overload protection; AC short circuit protection;				DC switch; Over-voltage and over-current protection; AC short circuit protection; Anti-island protection; Residual voltage detection; PV insulation			
	safety certification	IEC62109-1,IEC62109-2,EN62109-1,EN62109-2							
EMC certification	EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4								
Grid-connected certification	VDE-AR-N4105,G98,G99,CEI0-21,EN50549,NRS097-2-1,AS4777.2,R25								



Shenzhen Coslight Power Technology Co., Ltd.

W: WWW.COSPOWERS.COM

A: No.2, Guangtian Road, No.3 Industrial Zone, Luotian Community, Yanluo Street, Baoan District, Shenzhen, Guangdong Province, P.R.C

T: +86-755-33185898

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