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YK-PLS3500W SERIES

Parallel Pure Sine Wave Inverter

3 phase power system or single phase power system

Features:

- Pure sine wave output (THD<3%) R Load
- Parallel redundancy design for power expansion
- Bypass function
- Loading and Temperature controlled cooling Fan
- RS-232 interface
- Advanced microprocessor
- Protection:
 - Reverse Polarity (Fuse)
 - Under Voltage
 - Over Voltage
 - Overload
 - Over Temperature
 - Over Voltage
 - AC over current (Breaker)
 - Short Circuit

Model	YK-PLS 123500 WA	YK-PLS 243500 WA	YK-PLS 483500 WA	YK-PLS 1103500 WA	YK-PLS 2203500 WA	YK-PLS 123500 WE	YK-PLS 243500 WE	YK-PLS 483500 WE	YK-PLS 1103500 WE	YK-PLS 2203500 WE
AC Output										
Rating Power	3500W(de-rating after 35°C, refer to de-rating curve for 12V) (de-rating after 40°C, refer to de-rating curve for 24V and 48V)									
Peak Power (3Sec.)	4500w									
Surge Power (<0.2Sec.)	6000w									
Waveform	Pure Sine Wave									
Efficiency (Max.)	90%	90%	91%	91%	91%	90%	91%	91%	91%	91%
Output Voltage (@rated VDC)	100 / 110 / 115 / 120VAC ± 3%					200 / 220 / 230 / 240 ± 3%				
Output Frequency	50/60Hz ± 0.1%									
Total Harmonic Distortion (THD)	< 3% @ under condition: greater than 1.15 times of the rated VDC, 110V / linear load)					< 3% @ under condition: greater than 1.15 times of the rated VDC, 230V / linear load)				
DC Input										
DC Voltage	12VDC	24VDC	48VDC	110VDC	220VDC	12VDC	24VDC	48VDC	110VDC	220VDC
Voltage Range	10.0-16.0 VDC	20.0-32.0 VDC	40.0-64.0 VDC	80.0-150.0 VDC	160.0-300.0 VDC	10.0-16.0 VDC	20.0-32.0 VDC	40.0-64.0 VDC	80.0-150.0 VDC	160.0-300.0 VDC
No load Power Consumption	@12VDC	@24VDC	@48VDC	@110VDC	@220VDC	@12VDC	@24VDC	@48VDC	@110VDC	@220VDC
On Mode @ Save Mode	1.4A	0.5A	0.5A	0.5A	0.5A	1.4A	0.5A	0.5A	0.5A	0.5A
On Mode @ No Load	< 2.9A	< 1.4A	< 0.8A	< 0.8A	< 0.8A	< 3.6A	< 1.8A	< 1A	< 0.8A	< 0.8A
Fuse	40Ax12	20Ax12	10Ax12	10Ax6	5Ax6	40Ax12	20Ax12	10Ax12	10Ax6	5Ax6
AC Input										
AC Range	100 / 110 / 115/ 120VAC ± 12.5%					200 / 220 / 230 / 240VAC ± 12.5%				
Frequency Selectable	50 / 60 Hz									
Synchronous Frequency	47~57 / 53~63 Hz									
Circuit Breaker	35A					20A				
Transfer Switch a)	Standard ATS: Inverter to utility AC : 8~10ms.; Utility AC to inverter : 16~50ms. Optional STS module: Single < 4ms; N+I & 1P3W & 3P4W < 6ms									
Protection										
BAT. Low Alarm ± 3%	10.5VDC	21.0VDC	42.0VDC	85.0VDC	165.0VDC	10.5VDC	21.0VDC	42.0VDC	85.0VDC	165.0VDC
BAT. Low Shut-down±3%	10.0VDC	20.0VDC	40.0VDC	80.0VDC	160.0VDC	10.0VDC	20.0VDC	40.0VDC	80.0VDC	160.0VDC
BAT. Low Restart ± 3%	12.5VDC	25.0VDC	50.0VDC	115.0VDC	230.0VDC	12.5VDC	25.0VDC	50.0VDC	115.0VDC	230.0VDC
BAT. High Alarm ± 3%	15.5VDC	31.0VDC	62.0VDC	145.0VDC	295.0VDC	15.5VDC	31.0VDC	62.0VDC	145.0VDC	295.0VDC
BAT. High Shut-down±3%	16.0VDC	32.0VDC	64.0VDC	150.0VDC	300.0VDC	16.0VDC	32.0VDC	64.0VDC	150.0VDC	300.0VDC
BAT. High Restart ± 3%	15.0VDC	30.0VDC	60.0VDC	140.0VDC	290.0VDC	15.0VDC	30.0VDC	60.0VDC	140.0VDC	290.0VDC
Input Protection	Reverse Polarity (Fuse) / Under Voltage / Over Voltage Protection / AC over current (Breaker)									
Output Protection	Short Circuit / Overload / Over Temperature / Over Voltage Protection									
Environment										
Working Temp.	-20~+60°C, refer to power de-rating curve									
Storage Temp.	-40~+70°C									
Relative Humidity	Max. 90%, non-condensing									
Safety & EMC										
Safety Standards	-----					EN 62368-1:2018 (LVD)				
EMC Standards	FCC Class B					EN 55014-1, EN 55014-2; EN 61000-3-2, -3-3; EN61204-3; EN 61000-6-1, -6-2, -6-3, -6-4 EN55032; EN55035 IEC 61000-4-2, 3, 4, 5, 6, 8, 11				
E-Mark	-----					-----				
Control & Signal										
LED Indicator	Input voltage level, faulty status									
Remote Control	YK-RC-PL and YK-RC-PLW									
Others										
Dimension (DxWxH)	485 x 258 x 118 mm / 19.09 x 10.16 x 4.65 inch									
Weight	9.6 kgs									
Cooling	Load & Thermal control fan									
Communication Port	RS-232 (RJ-11 type connector), Ethernet (Optional)									