

Solar Inverter



Product Features

- Adopts New Pure Sine-wave Inverter Topology (THD < 3%) .
- High power density with superior reliability and performance.
- Capable of driving highly reactive & capacitive loads at start moment.
- Advanced DSP Control ,Input/output isolated design.
- LED indicators display.
- Low power "Power Saving Mode" to conserve energy.
- Surge Rating: 2 * Prated.
- N+X redundancy function (optional).

Applications



Home Power Supply



Solar Energy Storage



RV



Office Equipment



Engineering Vehicles



Marine

Technical Parameter

OPS Pure Sine Wave Inverter											
Input	Item	0612	1012	—	2012	0612E	1012E	—	2012E	3012E	—
		0624	1024	1524	2024	0624E	1024E	1524E	2024E	3024E	4024E
	Nominal voltage	12Vdc(*2 for 24Vdc)									
	Operating range	10Vdc~15.1Vdc									
	Startup voltage	11.75Vdc~14.8Vdc									
		Load Level			0-29%		30-69%		70-100%		
	Battery alarm level	Battery-low Level			11.3Vdc		11.2Vdc		11.0Vdc		
		Battery-high Level			14.1Vdc		14.0Vdc		13.8Vdc		
	Battery shut-down level	Battery-under Level			10.3Vdc		10.2Vdc		10.0Vdc		
		Battery-over Level			15.1Vdc		15.0Vdc		14.8Vdc		
Battery recovery level	Battery-under Recovery			12.5Vdc							
	Battery-over Recovery			14.0Vdc							
Output	Output Waveform	Pure sine wave									
	Output Power	600W	1000W	1500W	2000W	600W	1000W	1500W	2000W	3000W	4000W
	Surge Rating	2*Prated									
	Nominal Output Voltage	110/115/120Vac				220/230/240Vac					
	Output Voltage Regulation	± 5%.....when input voltage higher than battery-low level									
	Output Frequency	50/60Hz±0.1%									
	"Output Current @ 220/230/240"	—				2.73A /2.61 A /2.50A	4.55A /4.35A /4.17A	6.81A /6.52A /6.25A	9.10A /8.70A /8.34A	13.65A /13.05A /12.51 A	18.18A /17.39A /16.67A
	"Output Current @110/115/120"	5.45A /5.22A /5A	9.09A /8.70A /8.33A	13.63A /13.04A /12.50A	18.18A /17.39A /16.67 A	—					
	Crest factor	3:1									
	THD	"≤3%. linear load; ≤5%. non-linear load....at nominal Input voltage ≤15%.....at minimum cut-off (10Vdc) level"									
	"Peak Output Current @ 220/230/240"	—				5.46A /5.22A /5.00A	9.10A /8.70A /8.34A	13.62A /13.04A /12.50A	18.20A /17.40A /16.68A	273A /26.1 A /25.02A	36.36A /34.78A /33.34A
	Peak Output Current @110/115/120	10.92A /10.44A /10A	182A /17.4A /16.68A	27.3A /26.1A /25A	36.36A /34.78A /33.34A	—					
	Efficiency	>88% (typical), 90% (peak)									
	No load Current Draw	<15W	<15W	<15W	<25W	<20W	<20W	<20W	<30W	<35W	<40W
	Stand-by Current Draw	<6W	<6W	<6W	<10W	<6W	<6W	<6W	<10W	<10W	<10W
Over load protection	Refer to Sec.3.9 and Sec.3.10										

OPS Pure Sine Wave Inverter

Environmental	Noise	<50 dB										
	Operating temperature	Operation temperature: -20 to +70°C -5 to +40 °C with full performance.										
	Storage temperature	-30-70°C										
	Operating humidity	90% RH (no condense)										
	Operating Attitude	1500m										
	Safety	ETL, UL-458, CE										
	EMC	FCC Part 15 Class B. EN55022 Class B. E-mark										
Mechanical	Dimension LxWxH(mm)	270x160x70 mm	355x190x95 mm		411x285x107 mm	270x160x70 mm	355x190x95 mm		411x285x107 mm	411x285x122 mm		
	Weight (Kg)	2.5kg	4.0Kg	4.5kg	8.0kg	2.5kg	4.0Kg	4.5kg	8.0kg	8.8kg	8.8kg	
	Force cooling	Load and Temperature Controlled Cooling Fan										
Control	Protection	Overload, Short circuits, Reverse polarity, Over / under input voltage, Over temperature, High output voltage, Low output voltage, Unit internal failure. Unit in-parallel failure										
	Startup time	< 5 Seconds										
	Power Saving Recovery Time	5 Seconds										
Human Interface	LED Indicator	3-LED installed										
	Audible Alarm	Buzzer										
	Communication Interface	RS232										

