Introduction

OPT-R pure sine wave inverter is specially designed for electricity and communication systems. Inverter's feature an integrated utility bypass and pure sine wave from a dc source. Suit for computers and other electrical equipment.

To prepare for the instability of the city electricity and power cuts. It also prevents various distortions of utility power, such as power supply voltage drop, surge voltage, spike voltage, and broadcast frequency interference.

Main Features

- Pure sinewave includes Utility bypass & transfer.
- Intelligent Microprocessor-Based Control.
- 19Inch 1U/2U/4U Rack Mount.
- Power Factor 0.8.
- Low EMI/RFI Emissions.
- User-Friendly LCD and LED Displays.
- Default RS232 Communication port.
- SNMP Communication Option.
- IEC-60950 compliant.

Production standards

- **EMI:** EN IEC 61000-6-3:2021;
  IMMUNITY: EN IEC 61000-6-1:2019.
- **Conducted immunity:** IEC 61000-4-6.

Measurement Parameter

	Model	OPT-R3	OPT-R4	OPT-R5	OPT-R6	OPT-R8	OPT-R10
DC Input	Rated voltage**	24V/48V/110V/220V/240Vdc					
	Rated current**	Depends on rated voltage					
	Working voltage range	Depends on rated voltage					
	Reverse noise Current	≤10%					
AC Bypass input	Allow voltage	220Vac±20%					
	Current	10.8A	14.5A	18.2A	21.8A	29A	36A
	Conversion interval	≤5ms					
AC Output	Capacity*	3KVA	4KVA	5KVA	6KVA	8KVA	10KVA
	Power	2400W	3200W	4000W	4800W	6400W	8000W
	Voltage & frequency	220Vac±3% & 50Hz±0.1%					
	Current	10.8A	14.5A	18.2A	21.8A	29A	36.3A
	THD	≤3% @Linear load					
	Dynamic Response	5% @Load 25%~100%					
	Over load ability	10mins @100%~125%; 15seconds @125%~150%; Shut down immediately over 150%					
	Efficiency	≥85% @80% Resistive load					
Others	Insulation strength	1500Vac, 1min (input and output)					
	Noise	≤40dB@1meter distance					
	Operating temperature	-25°C~+50°C					
	Humidity	0~90%, no cooling					
	Altitude	≤1000m					
	Weight/Kg	12kgs	13kgs	14kgs	15kgs	20kgs	22kgs
Protect function		Input lower voltage, input overvoltage protection; output overload protection, output short circuit protection					

Notes:

* AC output with ±100W error of the rated capacity

**DC input extension table:

Rated voltage		24Vdc	48Vdc	110Vdc	220Vdc	240Vdc
Working voltage range		20V~30.5V	40V~58.8V	90V~145V	180V~270V	200V~300V
Start up / Boot voltage range		21.5V~29.5V	42V~57V	94V~142V	190V~265V	210V~295V
Rate current input	@3 KVA	117A	57A	24.9A	12.4A	11.7A
	@4 KVA	/	77A	33.4A	16.7A	15.6A
	@5 KVA		98A	36.6A	18.3A	19.6A
	@6 KVA		117A	51.3A	22A	23.5A
	@8 KVA		156A	68A	34.2A	34.2A
	@10 KVA		196A	85A	42.7A	39A