

VZ Series Characteristics

On Inverter

- High overload ability up to 300% rated power (20 sec.)
- Low quiescent current power saver mode

On Battery Charger

- 3-step intelligent battery charging
- Uses PFC (power factor correction) for charger

On Transfer

- 10ms typical transfer time
- 15s delay before transfer when AC resumes

Option

- Battery/AC priority switch Available for off grid solar/ wind system
- Auto Generator Starter
- Remote Control
- Battery Temperature Sensor





















Applications

 High overload ability of our VZ charger is up to 300% rated power (20 sec)



- VZ pure sine wave invrter adopts low quiescent current and power mode to reduce power consumption to 10W(3s sensing cycle)/3W(30s sensing cycle)*,It can extract max. power from various batteries with different protections and low voltage trip can be selected 9.5V/10V or 10V/10.5V)
- Uses PFC (power factor correction) for charger, which has less power consumption than conventional units.
- It has 15s delay before transfer when AC resumes, and overload protection when our VZ pure sine wave inverter equips with generator.
- 10ms typical transfer time between battery and AC, which guarantees power continuity of VZ charger. Uses selectable input AC voltage for different kinds of loads.
- Our VZ charger allows start up and through power with depleted batteries. Its powerful charge rate up to 90Amp.
- It can offer 3-step intelligent battery charging, and equipped with 8 preset battery type selector foe totally flat batteries.
- LCD status display, battery/AC priority switch, RS232 communication port are available for our VZ
 pure sine wave inverter, it also has 17 alarms/warnings for easier operation and trouble-shooting and
 ability to switch the unit on/off. In addition,select/deselect power saver mode can be used too.
- Automatic Voltage Regulator Function (Optional)

On the Dc end of inverter, there are 5 DIP switches which enable users to customize the performance of the device.

Switch NO	Switch Function	Position:0	Position:1
SW1	Low Battery Trip Volt	10.0VDC	10.5VDC
SW2	AC Input Range	100-135VAC	90-135VAC
SW3	Power Saver Auto Setting	Night charger	Detect load p/3 sec
SW4	O/P Frequency Setting	50 Hz	60 Hz
Sw5	Battery/AC Priority	Utility Priority	Battery Priority

Low Battery Trip Volt:

The Low Battery Trip Volt is set at 10.0VDC by defauit. It can be customized to 10.5VDC.

AC Input Range:

There are different acceptable AC input ranges for different kinds of loads. It can be customized.

Load Sensing Cycle:

The inverter is factory defaulted to detect load for 250ms in every 30 seconds. This cycle can be customized to 3 seconds theu the SW3 on DIP switch.

AC/Battery Priority:

Our inverter is designed AC priority by default. This means, when AC input is present, the battery will be charged first, and the inverter will transfer the input AC to power the load.

The AC priority and Battery Priority switch is available upon request. When you choose battery priority the inverter will inverting from battery despite the AC input.

	Model	100014/	150014	200014/	200014/	400014/	500014/	600014/			
Inverter Output	Continuous output nouse	1000W	1500W	2000W	3000W	4000W	5000W	6000W			
	Continuous output power	200014	150000	200000	300000	400000	1000W	100000			
	Surge rating (208)	300000	4500W	00000	9000W	1200000		1800000			
		ITT		ZITP	Samo as inn	4⊓P ut (bypacc r	noda)	ULL			
	Nominal efficiency	Fulle sine wave /same as input (bypass mode)									
	Line mode efficiency	>00% (µeak)									
	Power factor	09-10									
	Nominal output voltage (rms)	100-110-120Vac / 220-230-240Vac									
	Output voltage regulation	+10% RMS									
	Output requency	50Hz + 0 3Hz / 60Hz + 0 3Hz									
	Short circuit protection	Yes, current limit function (Fault after 1 sec)									
	Typical transfer time	10ms (max)									
	THD				< 10%						
	Neminal input voltage				12Vdc						
	Nominal input voltage	(*2 for 24vdc, *4 for 48vdc)									
	Minimum start voltage				10Vdc						
	Low battery alarm	10.5Vdc / 11.0Vdc									
DC input	Low battery trip			10.	0Vdc / 10.5	Vdc					
	High voltage alarm & fault				16.0Vdc						
	High voltage input recovery	15.5Vdc									
	Low battery voltage recover	13.0Vdc									
	Idle consumption - search mode			< 25W w	hen power	saver on					
	Input voltage range			Wide: 90-	135Vac / 16	64-243Vac					
				Narrow: 10	0-135Vac /	194-243Vac	:				
	Output voltage	Depends on battery type									
	Charger breaker rating	10A	10A	10A	20A	20A	30A	30A			
	Max charge rate		35A	V/10-90Am	ax (charge c	current cont	trol)				
	Over charge protection shutdown		15./\	for 12Vac	(*2 for 24V	ac, *4 for 48	SVac)				
	Charger curve (4 stage constant		Dett		*2 fa = 2 4) /al	- *1 fan 10)	(a) a)				
	current) 4 step digital controlled		Batt	tery types (~2 for 24va	c, ^4 for 48	Váč)				
Chargor	Progressive charge		Fact V/de			Float	+ \/dc				
Charger		Fast Vdc Float Vdc									
Charger			11			13	7				
Charger	Gel U.S.A		14			13	3.7				
Charger	Gel U.S.A A.G.M 1		14 14.1 14.6			13 13 13	3.7 3.5 2.7				
Charger	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid		14 14.1 14.6 14.4			13 13 13 13	3.7 3.5 3.7 3.6				
Charger	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro		14 14.1 14.6 14.4 14.4			13 13 13 13 13 13	3.7 3.5 3.7 3.6 3.8				
Charger	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid		14 14.1 14.6 14.4 14.4 14.8			13 13 13 13 13 13 13	3.7 3.5 3.7 3.6 3.8 3.8				
Charger	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium		14 14.1 14.6 14.4 14.4 14.8 15.1			13 13 13 13 13 13 13 13 13	3.7 3.5 3.7 3.6 3.8 3.3 3.6				
Charger	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation		14 14.1 14.6 14.4 14.4 14.8 15.1		15.5 for 4hr:	13 13 13 13 13 13 13 13 13	3.7 3.5 3.7 3.6 3.8 3.8 3.3 3.6				
Charger	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control		14 14.1 14.6 14.4 14.4 14.8 15.1		15.5 for 4hrs res. Optiona	13 13 13 13 13 13 13 13 13 5 13	3.7 3.5 3.7 3.6 3.8 3.8 3.3 3.6				
Charger	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform		14 14.1 14.6 14.4 14.4 14.8 15.1	Sine wav	15.5 for 4hrs 'es. Optiona e (Grid or G	13 13 13 13 13 13 13 13 13 5 1 1 1 9 1 9 9 1 9 9 1 9 1 9 1 9 1 9 1	3.7 3.5 3.7 3.6 3.8 3.8 3.3 3.6				
	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage		14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac	Sine wave	15.5 for 4hrs és. Optiona e (Grid or G	13 13 13 13 13 13 13 13 13 5 5 11 enerator) 230	3.7 3.5 3.7 3.6 3.8 3.3 3.6 Wac				
	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip	8	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4 ⁴	Sine wave	15.5 for 4hrs 'es. Optiona e (Grid or G	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.5 3.7 3.6 3.8 3.3 3.6 3.3 3.6 Vac 44V ± 4%				
	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage re-engage	8	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4 0V/100V ± 4	Sine wav %	15.5 for 4hrs fes. Optiona e (Grid or G	13 13 13 13 13 13 13 13 13 5 5 14 enerator) 230 184V/15 194V/16	3.7 3.5 3.7 3.6 3.8 3.3 3.6 3.6 3.6 3.6 3.6 $4V \pm 4\%$ $4V \pm 4\%$				
Charger	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage re-engage High voltage trip	8	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4 0V/100V ± 4 140V ± 4%	Sine wave %	15.5 for 4hrs 'es. Optiona e (Grid or G	13 13 13 13 13 13 13 13 13 13 13 5 13 13 13 13 13 13 13 13 13 13 13 13 13	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 $4V \pm 4\%$ $4V \pm 4\%$ $4V \pm 4\%$ $4V \pm 4\%$ $c \pm 4\%$				
	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage re-engage High voltage re-engage	8	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4 0V/100V ± 4 140V ± 4% 135V ± 4%	Y Sine wav %	15.5 for 4hrs 'es. Optiona e (Grid or G	13 13 13 13 13 13 13 13 13 13 5 13 enerator) 230 184V/15 194V/16 253Vac 243Vac	3.7 3.5 3.7 3.6 3.8 3.3 3.6 Vac 64V ± 4% 64V ± 4% 6± 4% 6± 4% 6± 4% 6± 4%				
	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage re-engage High voltage trip High voltage re-engage Max input AC voltage	8 90	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4 0V/100V ± 4 140V ± 4% 135V ± 4% 150Vac	Sine wav %	15.5 for 4hrs 'es. Optiona e (Grid or G	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.7 3.6 3.8 3.3 3.6 $4V \pm 4\%$ $64V \pm 4\%$ $c \pm 4\%$ $c \pm 4\%$ $c \pm 4\%$ Vac				
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage re-engage High voltage trip High voltage re-engage Max input AC voltage Nominal input frequency	8 90	14 14.1 14.6 14.4 14.8 15.1 120Vac 0V/90V ± 44 0V/100V ± 44 140V ± 4% 135V ± 4% 150Vac	Sine wav Sine wav % % 50Hz or	15.5 for 4hrs res. Optiona e (Grid or G 60Hz (Auto	13 13 13 13 13 13 13 13 13 5 13 13 5 13 13 13 5 13 13 13 5 13 14 14 17 15 19 47/15 253 Vac 243 Vac 243 Vac 270 0 detect)	$ \frac{3.7}{3.5} \\ \frac{3.7}{3.6} \\ \frac{3.8}{3.3} \\ \frac{3.8}{3.3} \\ \frac{3.6}{64V \pm 4\%} \\ \frac{64V \pm 4\%}{64V \pm 4\%} \\ \frac{c \pm 4\%}{c \pm 4\%} \\ \frac{c \pm 4\%}{V4c} \\ \frac{1}{2} \\ \frac{1}{2}$				
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip High voltage trip High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip	8	14 14.1 14.6 14.4 14.8 15.1 120Vac 0V/90V ± 4' 0V/100V ± 4' 140V ± 4% 135V ± 4% 150Vac	Sine wav % % 50Hz or ± 0.3Hz for	15.5 for 4hrs 'es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ±	13 13 13 13 13 13 13 13 13 13 13 5 13 13 13 5 13 14 14 17 19 4 17 19 4 17 10 25 3 18 4 17 10 25 3 10 25 3 10 25 25 3 10 25 25 20 20 270 20 20 20 20 20 20 20 20 20 20 20 20 20	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 $0Vac$ $4V \pm 4\%$ $c \pm 4\%$ $c \pm 4\%$ $c \pm 4\%$ $C \pm 4\%$ Vac $0Hz$				
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip High voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage	8	$ \begin{array}{r} 14 \\ 14.1 \\ 14.6 \\ 14.4 \\ 14.8 \\ 15.1 \\ \hline 120Vac \\ 0V/90V \pm 4' \\ 0V/100V \pm 4' \\ 140V \pm 4\% \\ 135V \pm 4\% \\ 150Vac \\ \hline 47 \\ 48 \\ \end{array} $	Sine wav % !% 50Hz or ± 0.3Hz for ± 0.3Hz for	15.5 for 4hrs 'es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ±	13 13 13 13 13 13 13 13 13 13 13 5 13 14 14 14 14 14 14 14 14 14 14 14 14 14	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 $0Vac$ $4V \pm 4\%$ $64V \pm 4\%$ $c \pm 4\%$ $c \pm 4\%$ $c \pm 4\%$ Vac $0Hz$ $0Hz$				
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip High voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq trip	8	$ \begin{array}{r} 14 \\ 14.1 \\ 14.6 \\ 14.4 \\ 14.8 \\ 15.1 \\ \hline 120Vac \\ 0V/90V \pm 4' \\ 0V/100V \pm 4' \\ 140V \pm 4\% \\ 135V \pm 4\% \\ 150Vac \\ \hline 47 \\ 48 \\ 55 \\ \end{array} $	50Hz or ± 0.3Hz for ± 0.3Hz for	15.5 for 4hrs 'es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ±	13 13 13 13 13 13 13 13 13 13 13 13 13 1	$\frac{3.7}{3.5}$ $\frac{3.7}{3.6}$ $\frac{3.8}{3.3}$ $\frac{3.6}{54V \pm 4\%}$ $\frac{54V \pm 4\%}{54V \pm 4\%}$ $\frac{54V \pm 4\%}{54V \pm 4\%}$ $\frac{54V \pm 4\%}{54V \pm 4\%}$ $\frac{544V \pm 4\%}{54V \pm 4\%}$ $\frac{10000}{100}$ $\frac{1000}{100}$ $\frac{1000}{100}$ $\frac{1000}{100}$ $\frac{1000}{100}$				
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip Low voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq trip High freq re-engage	8	$ \begin{array}{r} 14 \\ 14.1 \\ 14.6 \\ 14.4 \\ 14.8 \\ 15.1 \\ \hline 120Vac \\ 0V/90V \pm 4' \\ 0V/100V \pm 4' \\ 0V/100V \pm 4'' \\ 135V \pm 4\% \\ 135V \pm 4\% \\ 150Vac \\ \hline 47 \\ 48 \\ 55 \\ 54 \\ \end{array} $	Sine wave Sine wave % !% 50Hz or ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for	15.5 for 4hrs 'es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ±	13 13 13 13 13 13 13 13 13 13 13 13 13 1	$\frac{3.7}{3.5}$ $\frac{3.7}{3.6}$ $\frac{3.8}{3.3}$ $\frac{3.3}{3.6}$ $\frac{3.8}{3.3}$ $\frac{3.6}{54V \pm 4\%}$ $\frac{54V \pm 4\%}{54V \pm 4\%}$ $\frac{54V \pm 4\%}{54V \pm 4\%}$ $\frac{54V \pm 4\%}{54V \pm 4\%}$ $\frac{544V \pm 4\%}{54V}$ $\frac{544V \pm 4\%}{54V}$ $\frac{544V \pm 4\%}{54V \pm 4\%}$ $\frac{544V \pm 4\%}{54V}$ $\frac{1000}{100}$ $\frac{1000}{100}$ $\frac{1000}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$ $\frac{100}{100}$				
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip Low voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq re-engage High freq re-engage Output short circuit protection	8 90	$ \begin{array}{r} 14\\ 14.1\\ 14.6\\ 14.4\\ 14.4\\ 14.8\\ 15.1\\ \hline 120Vac\\ \hline 0V/90V \pm 4'\\ 0V/100V \pm 4'\\ 135V \pm 4\%\\ 135V \pm 4\%\\ 150Vac\\ \hline 47\\ 48\\ 55\\ 54\\ \hline 54\\ \hline 54\\ \hline 65\\ \hline 54\\ \hline 65\\ \hline 6$	50Hz or ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for	15.5 for 4hrs fes. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breake	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 $4V \pm 4\%$ $64V \pm 4\%$ $c \pm $				
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip High voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq re-engage High freq re-engage Output short circuit protection Bypass breaker rating	8 90 10A	$ \begin{array}{r} 14 \\ 14.1 \\ 14.6 \\ 14.4 \\ 14.8 \\ 15.1 \\ \hline 120Vac \\ 0V/90V \pm 4^{\circ} \\ 0V/100V \pm 4^{\circ} \\ 135V \pm 4^{\circ} \\ 135V \pm 4^{\circ} \\ 150Vac \\ \hline 48 \\ 55 \\ 54 \\ \hline 15A \\ \hline 15A \\ \hline $	50Hz or ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for C 20A	15.5 for 4hrs fes. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breako 30A	13 13 13 13 13 13 13 13 13 13 13 13 13 1	$ \frac{3.7}{3.5} \\ \frac{3.7}{3.6} \\ \frac{3.8}{3.3} \\ \frac{3.8}{3.3} \\ \frac{3.6}{3.6} \\ \frac{3.8}{3.3} \\ \frac{3.6}{3.6} \\ \frac{3.6}{5} \\ \frac$	40A			
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip High voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq re-engage High freq re-engage High freq re-engage Output short circuit protection Bypass breaker rating Transfer switch rating	8 90 10A 30an	$ \begin{array}{r} 14 \\ 14.1 \\ 14.6 \\ 14.4 \\ 14.8 \\ 15.1 \\ \end{array} $ $ \begin{array}{r} 120Vac \\ 0V/90V \pm 4' \\ 0V/100V \pm 4' \\ 0V/100V \pm 4'' \\ 135V \pm 4\% \\ 135V \pm 4\% \\ 150Vac \\ \end{array} $ $ \begin{array}{r} 48 \\ 55 \\ 54 \\ 54 \\ \end{array} $	Sine wav Sine wav % % % % 50Hz or ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for 20A TUV	15.5 for 4hr: /es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breake 30A	13 13 13 13 13 13 13 13 13 13 13 13 13 1	$ \frac{3.7}{3.5} \\ \frac{3.7}{3.6} \\ \frac{3.8}{3.3} \\ \frac{3.8}{3.3} \\ \frac{3.6}{3.6} \\ \frac{3.7}{3.6} \\$	40A			
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip High voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq trip High freq re-engage Output short circuit protection Bypass breaker rating Max bypass current	8 90 10A 30an	14 14.1 14.6 14.4 14.8 15.1 120Vac 0V/90V ± 44 0V/100V ± 4% 135V ± 4% 135V ± 4% 150Vac 47 48 55 54 54 15A np for UL & 30amp	50Hz or ± 0.3Hz for ± 0.3Hz for TUV	15.5 for 4hrs /es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breake 30A	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 VVac 64V ± 4% 04Z 0Hz	40A			
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq trip Low freq re-engage High freq re-engage Output short circuit protection Bypass breaker rating Transfer switch rating Max bypass current Mounting Invester dimensiones (Interfet II)	8 90 10A 30an	14 14.1 14.6 14.4 14.8 15.1 120Vac 0V/90V ± 4' 0V/100V ± 4' 140V ± 4% 135V ± 4% 150Vac 47 48 55 54 54 15A np for UL & 30amp	50Hz or ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for C 20A TUV	15.5 for 4hrs /es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breake 30A Wall mount	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 Wac 4V ± 4% 64V ± 4% 62 ± 4% Wac 0Hz 0Hz <tr< td=""><td>40A</td></tr<>	40A			
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq re-engage High freq re-engage Output short circuit protection Bypass breaker rating Transfer switch rating Max bypass current Mounting Inverter dimensions (L*W*H)	8 90 10A 30an 382*218	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4' 0V/100V ± 4' 140V ± 4% 135V ± 4% 150Vac 47 48 55 54 54 54 15A np for UL & 30amp *179mm	50Hz or ± 0.3Hz for ± 0.3Hz for	15.5 for 4hrs /es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breake 30A Wall mount *179mm	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 Vac 4V ± 4% 64V ± 4% 64V ± 64V ± 64V 64V ± 64V ± 64V 64V ± 64V 64V ± 64V 64V ± 64V ± 64V 64V ± 64V 64V ± 64V 64V 64V ± 64V 64V ± 64V 64V ± 64V 64V ± 64V 64V ± 64V 64V 64V ± 64V 64V 64V ± 64V 64V 64V 64	40A			
Bypass & protection	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq trip High freq trip High freq re-engage Output short circuit protection Bypass breaker rating Transfer switch rating Max bypass current Mounting Inverter dimensions (L*W*H) Inverter weight	8 90 90 10A 30an 382*218 16kg	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4' 0V/100V ± 4' 0V/100V ± 4' 135V ± 4% 135V ± 4% 150Vac 47 48 55 54 55 54 15A np for UL & 30amp *179mm 17kg	50Hz or 50Hz or ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for 20A TUV 442*218 20kg 500+347	15.5 for 4hrs /es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breake 30A Wall mount *179mm 24kg *200mm	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 Vac 40V ± 4% 64V ± 4% 74% 74% 74% 74% 74% 74% 74% 7	40A			
Bypass & protection Mechnical specification	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq trip High freq re-engage Output short circuit protection Bypass breaker rating Transfer switch rating Max bypass current Mounting Inverter dimensions (L*W*H) Inverter weight Shipping dimensions (L*W*H)	8 90 90 10A 30an 382*218 16kg 520*315	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4' 0V/100V ± 4' 0V/100V ± 4'' 135V ± 4% 135V ± 4% 150Vac 47 48 55 54 15A np for UL & 30amp *179mm 17kg *300mm	Sine wave Sine wave % !% 50Hz or ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for 20A TUV 442*218 20kg 580*315 580*315	15.5 for 4hrs és. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breake 30A Wall mount *179mm 24kg *300mm	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 Vac 40V ± 4% 64V ± 4% 6	40A 40A nm 45kg nm			
Bypass & protection Mechnical specification	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage trip Low voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq trip High freq re-engage Output short circuit protection Bypass breaker rating Transfer switch rating Max bypass current Mounting Inverter dimensions (L*W*H) Inverter weight Shipping weight Display	8 90 90 10A 30an 382*218 16kg 520*315 18kg	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4 0V/100V ± 4 0V/100V ± 4 140V ± 4% 135V ± 4% 150Vac 47 48 55 54 54 54 15A np for UL & 30amp *179mm 17kg *300mm	% Sine wave % 1% 50Hz or ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for ± 0.3Hz for C 20A TUV 442*218 20kg 580*315 22kg 580*315	15.5 for 4hrs e. Optiona e (Grid or G (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breake 30A Wall mount *179mm 24kg *300mm 26kg s (Statue 1)	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 Vac 40V ± 4% 64V ± 4% 64V ± 4% 64V ± 4% 64V ± 4% 64V ± 4% 64V ± 4% 6	40A 40A 145kg nm 47kg			
Bypass & protection Mechnical specification	Gel U.S.A A.G.M 1 A.G.M 2 Sealed Lead Acid Gel Euro Open Lead Acid Calcium De-sulphation Remote control Input voltage waveform Nominal voltage Low voltage trip Low voltage re-engage High voltage re-engage Max input AC voltage Nominal input frequency Low freq trip Low freq re-engage High freq trip High freq re-engage Output short circuit protection Bypass breaker rating Transfer switch rating Max bypass current Mounting Inverter dimensions (L*W*H) Inverter weight Shipping dimensions (L*W*H) Shipping weight Display Standard warranty	8 90 10A 30an 382*218 16kg 520*315 18kg	14 14.1 14.6 14.4 14.4 14.8 15.1 120Vac 0V/90V ± 4 120Vac 0V/90V ± 4 140V ± 4% 135V ± 4% 135V ± 4% 150Vac 47 48 55 54 54 54 54 54 55 54 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 54 55 55	Sine wave %	15.5 for 4hr: 'es. Optiona e (Grid or G 60Hz (Auto 50Hz, 57 ± 50Hz, 58 ± 50Hz, 65 ± 50Hz, 64 ± ircuit breake 30A Wall mount *179mm 24kg *300mm 26kg is / Status L 1 year	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.7 3.7 3.5 3.7 3.6 3.8 3.3 3.6 Vac 4V ± 4% 64V ± 4% 64V ± 4% 64	40A 40A nm 45kg nm 47kg			



Diagram

