Ultra RV

Inverter/Charger



Pure sine, high surge, and full feature, the Ultra RV is the state of the art. The heart of your power system!



2000W 12V 50A

3000W 12V 90A

3600W 24V 50A

4500W 24V 70A

The Ultra RV CSA certificated low frequency sine wave inverter charger represents highly sophisticated and advanced inverter charger available in 4500W/24Vdc with 70A charger, 3600W/24Vdc with 50A charger, 3000W /12Vdc with 90A charger and 2000W/12Vdc with 50A charger models. The Ultra RV features premium sine wave output with high surge capability and temperature compensated, power factor corrected, multi-stage charging to meet power needs of demanding loads including motor loads. All range of Ultra RV inverter chargers are compatible with optional system remove control panel, automatic generator start and battery temperature sensor. All of models are approved to UL458, CSA requirements.

Product Features

- Designed to operate under harsh environment
- DC start & automatic self-diagnostic function
- True sine wave output (THD<3%) to operate sensitive electronic and electrical equipment.
- Automatic Generator start function
- Easy to install & easy to operate & easy to solve
- Low DC voltage supports home and office appliances
- Charge rate selectable from 0%-100%
- High efficiency design.
- 13Vdc battery recovery point, dedicated for renewable energy systems.
- 8 pre-set battery type selector plus De-sulphation for totally flat batteries.
- Power factor corrected multi-stage charger for fast, efficient charging, minimizing charging time.
- 10ms max transfer time between utility and battery, guarantees power continuity.
- 15s delay before transfer when AC resumes, protection for load when used with generator.
- Conformal coated circuit boards for humid environments.
- Battery temperature sensoring to enhance battery lifecycle.
- LCD and LED display to indicate the status of the inverter charger
- ETL & c-ETL listed to CSA standard C22.2 No.107.1 and UL458
- Surge capacity to start difficult loads like refrigerators or A/C compressors.
- Power save mode to reduce idle consume.

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Protection Features

- AC input over voltage protection
- AC input low voltage protection
- Over temperature protection
- Over load protection
- Short circuit protection (1s after fault)
- Back feeding protection to avoids presenting an AC voltage on the AC input terminal in inverter mode.

Applications











coaches



Recreational vehicles

Marine

Heavy duty trucks

Work vehicles

Specialty

Electrical Specifications - Inverter	ULTRAFE2012A	ULTRAFE3012A	ULTRAFE3624A	ULTRAFE4524A		
Coninuous output power	2000W	3000W	3600W	4500W		
Surge Rating (20s)	6000W	9000W	10800W	13500W		
Capable of starting electric motor	2HP	3HP	3HP	4HP		
Output waveform	Pure sine	wave/same	as input(bypa	ass mode)		
Nominal efficieny		>88%	(peak)			
Line mode efficiency		>9	95%			
Power factor			-1.0			
Nominal output voltage		100Vac-110	Vac-120Vac			
Output voltage regulation		±10%	RMS			
Output frequency		50/60H	z±0.3Hz			
Power consumption- invertering (no load)	3.5Adc	4.0Adc	3.0Adc	3.5Adc		
Power consumption- searching mode	<1.4Adc	<1.6Adc	<1.05Adc	<1.05Adc		
Transfer time		10ms	(max)			
Total harmonic distortion (THD)		<	3%			
Electrical Specifications - Charger	ULTRAFE2012A	ULTRAFE3012A	ULTRAFE3624A	ULTRAFE4524A		
		Narrow: 100-135Vac; Wide: 90-135Vac				
Input voltage range	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*************		
Input frequency range	Narrow:47-5	5±0.3Hz for 5	0Hz, 57-65±0	.3Hz for 60Hz		
	Narrow:47-5	5±0.3Hz for 5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	.3Hz for 60Hz		
Input frequency range Input frequency range Max charge current	Narrow:47-5! Wide 50A	5±0.3Hz for 5 : 43±0.3Hz p 90A	0Hz, 57-65±0 lus for 50Hz/ 50A	.3Hz for 60Hz /60Hz 70A		
Input frequency range Input frequency range	Narrow:47-5! Wide	5±0.3Hz for 50 : 43±0.3Hz p	0Hz, 57-65±0. Ius for 50Hz/	.3Hz for 60Hz ′60Hz		
Input frequency range Input frequency range Max charge current	Narrow:47-5! Wide 50A 80% 15.7V	5±0.3Hz for 50 : 43±0.3Hz p 90A 80% 15.7V	0Hz, 57-65±0. Ilus for 50Hz/ 50A 80% 31.4V	.3Hz for 60Hz /60Hz 70A 80% 31.4V		
Input frequency range Input frequency range Max charge current Charger efficiency Over charge current shutdown Output voltage	Narrow:47-5! Wide 50A 80% 15.7V Depends o	5±0.3Hz for 50 : 43±0.3Hz p 90A 80% 15.7V on battery typ	0Hz, 57-65±0. Ilus for 50Hz/ 50A 80% 31.4V De *for 12V (*	.3Hz for 60Hz /60Hz 70A 80% 31.4V *2 for 24V)		
Input frequency range Input frequency range Max charge current Charger efficiency Over charge current shutdown Output voltage Battery Type	Narrow:47-5! Wide 50A 80% 15.7V Depends o	5±0.3Hz for 50 : 43±0.3Hz p 90A 80% 15.7V	0Hz, 57-65±0. Ilus for 50Hz/ 50A 80% 31.4V	.3Hz for 60Hz /60Hz 70A 80% 31.4V *2 for 24V)		
Input frequency range Input frequency range Max charge current Charger efficiency Over charge current shutdown Output voltage	Narrow:47-5 Wide 50A 80% 15.7V Depends o	5±0.3Hz for 50 : 43±0.3Hz p 90A 80% 15.7V on battery typ	0Hz, 57-65±0 lus for 50Hz/ 50A 80% 31.4V be *for 12V (*	.3Hz for 60Hz /60Hz 70A 80% 31.4V *2 for 24V)		
Input frequency range Input frequency range Max charge current Charger efficiency Over charge current shutdown Output voltage Battery Type Gel U.S.A A.G.M 1	Narrow:47-5! Wide 50A 80% 15.7V Depends of *Absortion	5±0.3Hz for 5 : 43±0.3Hz p 90A 80% 15.7V on battery typ mode (Vdc)	0Hz, 57-65±0 lus for 50Hz/ 50A 80% 31.4V be *for 12V (* *Float mo	3Hz for 60Hz 70A 80% 31.4V *2 for 24V) ode (Vdc)		
Input frequency range Input frequency range Max charge current Charger efficiency Over charge current shutdown Output voltage Battery Type Gel U.S.A	Narrow:47-5! Wide 50A 80% 15.7V Depends of *Absortion 1	5±0.3Hz for 50 : 43±0.3Hz p 90A 80% 15.7V on battery typ mode (Vdc)	0Hz, 57-65±0. Ilus for 50Hz/ 50A 80% 31.4V be *for 12V (* *Float mo	.3Hz for 60Hz /60Hz 70A 80% 31.4V *2 for 24V) ode (Vdc) 3.7		
Input frequency range Input frequency range Max charge current Charger efficiency Over charge current shutdown Output voltage Battery Type Gel U.S.A A.G.M 1	Narrow:47-5! Wide 50A 80% 15.7V Depends of *Absortion 1 14	5±0.3Hz for 50 : 43±0.3Hz p 90A 80% 15.7V on battery typonode (Vdc) .4 1.1	0Hz, 57-65±0 lus for 50Hz/ 50A 80% 31.4V be *for 12V (* *Float mo 13	.3Hz for 60Hz /60Hz 70A 80% 31.4V *2 for 24V) ode (Vdc) 3.7 3.4		
Input frequency range Input frequency range Max charge current Charger efficiency Over charge current shutdown Output voltage Battery Type Gel U.S.A A.G.M 1 A.G.M 2	Narrow:47-5! Wide 50A 80% 15.7V Depends of *Absortion 14 14 14	5±0.3Hz for 50 : 43±0.3Hz p 90A 80% 15.7V on battery typ mode (Vdc) .4 1.1 1.6	0Hz, 57-65±0. llus for 50Hz/ 50A 80% 31.4V be *for 12V (* *Float mo 13 13 13	.3Hz for 60Hz /60Hz 70A 80% 31.4V *2 for 24V) ode (Vdc) 3.7 3.4		
Input frequency range Input frequency range Max charge current Charger efficiency Over charge current shutdown Output voltage Battery Type Gel U.S.A A.G.M 1 A.G.M 2 Sealed lead acid Gel Euro Open lead acid	Narrow:47-5! Wide 50A 80% 15.7V Depends of *Absortion 14 14 14 14 14 14	5±0.3Hz for 50 : 43±0.3Hz p 90A 80% 15.7V on battery typonode (Vdc) .4 1.1 1.6 1.4 1.4 1.8	0Hz, 57-65±0. llus for 50Hz/ 50A 80% 31.4V be *for 12V (* *Float mo 13 13 13 13	.3Hz for 60Hz /60Hz 70A 80% 31.4V *2 for 24V) ode (Vdc) 3.7 3.4 3.7 3.6 3.8 3.8		
Input frequency range Input frequency range Max charge current Charger efficiency Over charge current shutdown Output voltage Battery Type Gel U.S.A A.G.M 1 A.G.M 2 Sealed lead acid Gel Euro	Narrow:47-5! Wide 50A 80% 15.7V Depends of *Absortion 1 14 14 14 14 15	5±0.3Hz for 50 : 43±0.3Hz p 90A 80% 15.7V on battery type mode (Vdc) 4 1.1 1.6 1.4 1.4 1.8 5.1	0Hz, 57-65±0. llus for 50Hz/ 50A 80% 31.4V be *for 12V (* *Float mo 13 13 13 13	.3Hz for 60Hz /60Hz 70A 80% 31.4V *2 for 24V) ode (Vdc) 3.7 3.4 3.7 3.6 3.8 3.3		

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Electrical Specifications - DC Input	ULTRAFE2012A	ULTRAFE3012A	ULTRAFE3624A	ULTRAFE4524A	
Nominal input voltage	12.0Vdc	12.0Vdc	24.0Vdc	24.0Vdc	
Minimum start voltage	10.5/11.0/1	1.5/12.5Vdc	21.0/22.0/2	3.0/25.0Vdc	
Low battery alarm	10.5/11.0/1	1.5/12.5Vdc	21.0/22.0/2	3.0/25.0Vdc	
Low battery trip	10.0/10.5/1	1.0/12.0Vdc	20.0/21.0/2	2.0/24.0Vdc	
High voltage alarm & fault	16.0Vdc	16.0Vdc	32.0Vdc	32.0Vdc	
High DC input recovery	15.5Vdc	15.5Vdc	31.0Vdc	31.0Vdc	
Low battery voltage recovery	13.0Vdc	13.0Vdc	26.0Vdc	26.0Vdc	
Electrical Specifications - Bypass & protection	ULTRAFE2012A	ULTRAFE3012A	ULTRAFE3624A	ULTRAFE4524A	
Input voltage waveform	Sine wave (grid or generator)				
Nominal voltage		120	Vac		
Low voltage trip (Wide/Narrow)		80V/9	0V±4%		
Low voltage re-engage (Wide/Narrow)		90V/10)0V±4%	***************************************	
High voltage trip			ñ4%	***************************************	
High voltage re-engage		135\	ñ4%		
Max AC input voltage		150	Vac	***************************************	
Nominal input frequency	5	50Hz or 60Hz	z (auto detec	t)	
Low frequency trip	Narrow: 47	± 0.3 Hz for 5	0Hz, 57±0.3	Hz for 60Hz	
Low frequency trip	Wi	de: 40±0.3H;	z for 50Hz/60	OHz	
Low frequency re-engage	Narrow: 48±0.3Hz for 50Hz, 58±0.3Hz for 60Hz				
Low frequency re-engage	Wide: 45±0.3Hz for 50Hz/60Hz				
High frequency trip	Narrow: 55±0.3Hz for 50Hz, 65±0.3Hz for 60Hz				
High frequency trip	Wide: 70±0.3Hz for 50Hz/60Hz				
High frequency re-engage	Narrow: 54±0.3Hz for 50Hz, 64±0.3Hz for 60Hz				
High frequency re-engage	Wi	de: 65±0.3H;		OHz	
Output short circuit protection	Breaker	Breaker	Breaker	Breaker	
Electrical Specifications - General	ULTRAFE2012A		ULTRAFE3624A	ULTRAFE4524A	
Mounting method	Versatile mounting				
Display	LCD+LED status display				
Warranty	2 Years	2 Years	2 Years	2 Years	
Automatic Generator Start (AGS)	Yes	Yes	Yes	Yes	
Battery termperature sensor	Option	Option	Option	Option	
Remote control panel	Option	Option	Option	Option	
Regulatory and environment compliance	ETL & c-ETL certificated to CSA 107.1, UL458				
Inverter dimensions (L*W*H)	460mm*328mm*178mm				
Inverter weight (kg)	23	26.5	25.5	31.5	
Shipping dimensions (L*W*H)	580mm*450mm*285mm				
Shipping weight (kg)	28	31.5	30.5	36.5	
Working temperature	0-40C°	0-40C°	0-40C°	0-40C°	
Storage temperature	0-70C°	0-70C°	0-70C°	0-70C°	

Specifications are subject to chage without notice

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