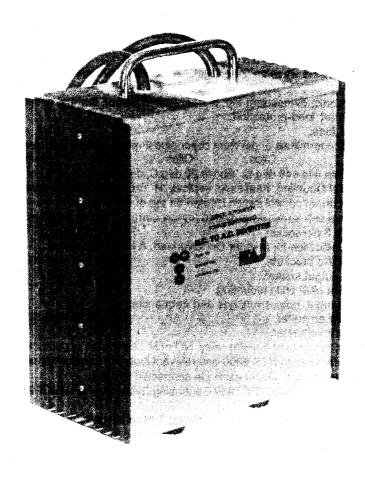


### 230 Volt Power From A Battery



### **Extra low RFI emmission**

### For sensitive communications environments

- \* Safety transformer output, full input/output isolation
- \* Automatic voltage regulation
- \* Local or remote on/off/reset
- \* Optional mounting brackets, meters

- \* Industrial-quality design
- \* Current-limit
- \* Floating battery

#### EBBETT SINE-WAVE INVERTER

#### **SPECIFICATIONS:**

OUTPUT LOAD:	Cont	150 VA									
	Surge	300 VA									
BATTERY VOLTAGE:		12 V	24 V	48 V	110 V						
BATTERY CURRENT:	No load	500 mA	250 mA 8 A	200 mA 4 A	100 mA 2 A						
PHYSICAL DIMENSIONS:	Max 250 H x 210	15 A	8 A	4 A	28						
WEIGHT:	5 kg	WXIISD									
OUTPUT VOLTAGE:		is or minus 5%									
FREQUENCY:	230 V AC plus or minus 5%. 50 Hz plus or minus 0.5 Hz.										
WAVE-FORM:	Voltage sine-wave on linear load. At cont load, Vb max, distortion less than 7%.										
EFFICIENCY:	>70%.										
PROTECTION:	Electronic; overcurrent trip, current-limited output, thermal overload, low output voltage trip,										
	soft-start load-protection.										
	Input fuse.										
BATTERY CONNECTION:	Klippon terminals under front cover plus 2 metre battery lead, terminated with :-										
•	Clips Clips Lugs Lugs										
OPERATING TEMPERATURE:	Ambient 0 to +40 deg C. Above 20 deg C, derate output ≈1% per deg C.										
	Normal mounting, heat sinks vertical. Horizontal mounting, derate output 15%.										
ON-OFF-RESET:	Low current control switch located on top of cabinet.										
	Internal pcb terminals provided for low current, remote on-off-reset.										
POWER OUTLET:	Single 3 pln			Law Battain T	Tuta						
INDICATION:	LED indication for Inverter On, Overload, & Low Battery Trip.										
OPTIONS:	Mounting brackets.										
	Dual output socket. Rack or gear plate mounting.										
	Other input, output voltages and frequencies etc.										
	Battery ammeter.										
	Battery voltmeter.										
	Mains-failure load transfer relay. NO or NC clean pair of contacts for remote alarm.										
ELECTRICAL SAFETY:	Manufactured to NZS 6200 and relevant isolating transformer requirements.										
	Floating output. Outlet earth-pin connected to case.										
	Complies with NZECP4 1989 Generating Systems, and NZECP29 1989 Boat Marinas &										
	Pleasure Craft.										
<b>ELECTRICAL INTERFERENCE</b>	:: RFI emission less than 60 microvolts. Telecom type approval No 2044.										
	Supplied ex factory, battery input floating above earth. Alternatively positive or negative										
	terminals ca	n be connected	to chassis for i	maximum RFI	suppression.						
PERMANENT INSTALLATION:			khead mounting	g from rear, or	standard mounting brackets availab						
	as an option	al extra.									
TYPICAL APPLICATIONS:				á.							
	* Sensitive	communications	equipment		computers, disk drives, printers						
	* Telecom n	nodems		* Fax machines, mobile phones							
	* Telemetry	equipment		* Calculators, rechargeable battery equipmen							
		, audio recorde	·	* Clocks							
	· .	•									
	* Musical in			* Electronic typewriters							
W.	* Industrial instruments										
	* Power tools, sewing machines, shavers * Radios & transmitters										
		otors up to cont									
Note: Derate approximately 50	% for	Diane	and hou	<u></u>							
		Distribu	itea by:								
starting fans (induction r	notor).										

Manufactured by:

Ebbett Automation Ltd, 70-72 Victoria St, Petone, Wellington, New Zealand. Phone 00-64-4-568-6377. Fax 00-64-4-568-2374. Email ebbett.automation@clear.net.nz

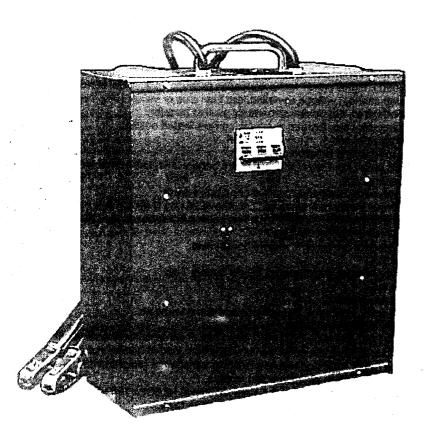
6/5/99 - Specification subject to change without notice



## Ebbett Automation Ltd

# **HP INVERTER**

## 230 Volt Power From A Battery



- \* Industrial-quality design
- \* Robust, lightweight, construction
- \* Completely self-contained
- \* Ready for immediate use
- \* No expensive installation extras
- \* Portable or permanent mounting
- \* Ideal for unattended operation

Multi-purpose

High efficiency

### Ideal for poor power-factor loads

- \* Safety transformer output, full input/output isolation
- \* Automatic voltage regulation
- \* Local or remote on/off/reset
- \* Optional mounting brackets, meters

- \* Reverse-polarity protection
- \* Current-limit
- \* Floating battery
- \* Optional telecom input filter, mains-failure changeover
- \* Meets caravan, marine and private generation standards

#### EBBETT HIGH PERFORMANCE INVERTER

#### SPECIFICATIONS:

SPECIFICATIONS	<u>s:</u>				£ .							
LOAD RATING:	0.5 hour	400VA (	1.7A)	800VÅ (3	3.5A)	1500VA	(6.5A)	3000VÅ (1	3A)			
20/10/10/11/01		250VA (		500VA (2		1000VA		1700VA (7				
	Surge (motor start)			1000VA		2000VA		4000VA (1				
	Peak	1000VA		2000VA		4000VA		6000VA (2				
BATTERY VOLTAGE		12V	24V	12V	24V	12V	24V	24V	o. ( <sub>)</sub>			
		600mA	400mA	600mÅ	400mA	600mÅ	400mA	400mA				
BATTERY CURRENT						150A	75A	150A				
	Cont load & min Vb		20A	80A	40A			360 x 340	. 100			
PHYSICAL DIMENSI	ONS: HXWXD	300 x 21	U X 100	320 x 23	U X 115	360 x 34	U X 145		X 130			
WEIGHT:		10 kg		12 kg		15 kg		20 kg				
OUTPUT VOLTAGE:			plus or mi				٠.					
FREQUENCY:			us or minus		_							
EFFICIENCY:			than 90% f					Famaalálli. ái	.Nabla tar naar			
WAVE-FORM:		Step vol	tage driven	ı, impulse	pnase co	rrected wa	ive-torm.	Especially st	uitable for poor			
		power-fa	actor loads	(digital po	wer-racto	r correctio	n product	es sinusoida	i current).			
	DYNAMIC RESPONSE: Fo		For full load step-change, voltage deviation less than plus or minus 10%, 1 cycle.									
CIRCUIT:	Pulse-width modulated, Fet-driven, separately-excited inverter.											
PROTECTION:	PROTECTION:				Electronic; overcurrent trip, thermal overload, current-limited output, low output voltage trip, soft-start load-protection.							
		MCB fitt	ed for mecl	hanical is	plation of I	batteries.						
BATTERY CONNECT	ION:							ead, terminat				
	* * * * * * * * * * * * * * * * * * *	battery	clipsbattery	y clips	lug		lug		Floating			
	,	input. Ca	an be exten	nally conn	ected pos	itive or ne	gative ear	th.				
OPERATING TEMPE	RATURE:	0 - 40 deg C normal mount heat sinks vertical. Above 20 deg C derate duty cycle ~1% per deg C. Horizontal mount, derate ~ 15%. Fan cooling increase rating ~ 20%.										
		per deg	C. Horizoni	tal mount,	derate =	15%. Fan (	cooling ind	crease rating	<b>~</b> 20%.			
ON-OFF-RESET:		MCB flush-mounted in front cover.										
		Terminals provided for low current, remote on-off-reset.										
POWER OUTLET:		Single 3	pin socket	l. ··								
INDICATION:		LED indication for inverter On, Overload, & Low Battery Trip.										
OPTIONS:			g brackets									
	,	Rack or	gear plate	mounting.								
· · · · · · · · · · · · · · · · · · ·		Other Input and output voltages, frequencies and wave-forms etc.  Battery ammeter. Battery voltmeter.										
		Battery	ammeter. t	sattery vo	itmeter.	NO alaan	male of oc	niania for ra	moto alarm			
		Mains-ta	niure load t	ransier ie	iay. NO o	ranamian	on from lo	entacts for re ad to battery	revetom			
		1 elecou	input fiiter		ate noise	izelitetisti	on transfe	rmer regular	y System. mente			
ELECTRICAL SAFET	Υ:	Manufac	ctured to N	255 6200	and relev	ant isolati	ng transio	rmer require	ments.			
		Floating	output. Ou	mise jent	-pin conne	BCIBO IO CO	150. Dorles I	17ECD# 100	0 Congrating			
	•	Compile	S WITH NZE	CP1 1988	Caravans	s & Carava	in Parks, i	NZEUF4 190	9 Generating			
			s, and NZE			armas & Pi	easure Cr	ait.				
ELECTRICAL INTER		RFI emi	ssion less	than 60 m	icrovoits.			Mandard ma	unting brooksta			
PERMÁNENT INSTA	LLATION:	6 mm threaded holes for bulkhead mounting from rear, or standard mounting brackets										
		avallabl	e at extra d	cost.								
TYPICAL APPLICAT												
TVs, video recorders	s, fax machines	+		+		+		+				
Indust Instrmnts, cor		+		+		+		*				
Power tools, sewing	machines	+		+		+		+				
(series motors up to	cont load rating)											
Personal computrs,	disc drives, printers	+		+		+		+				
I. Washing machines	- (1/4 HP Irid motor	)-		-		. +		+				
	- Gentle Annie	-		. +		+		+				
Pumps etc	- (3/4 HP Ind motor	)-		-		-		+				
ii. Fridges	- heat exch type	´+ ·		+		+		+				
- Motor type	- 2cu ft (0.5A)	_		+		+		+				
- Motor type	- 6cu.ft. (0.8A)			-		+		+				
	- 9cu.ft (1.4A)	_		-		+ ,		+				
iii. Microwave ovens				+		+ -		+				
Note:	300 11											
Motors should be s	hard off load. I are	a flowba	ale with ac	coloration	delay ma	v calisa o	verload lo	ckout. Batte	ry capacity musi			
be of sufficient to su	statteu oii-loau. Lary	id llywild iddhaid	tropping he	slow low h	attony trin	-voltana	1011040 10		,			
be of sufficient to st	ipply the start surge	Williout C	nopping be	propost b	actory trip	-voilage. 10 diech	ardo may	realise over	load lockout			
ii if fridge cycle is in	terrupted, attempted	restart	eiore com	pressorn	as nau un	ie to discri	alyo, illa	Cause Over				
III Recommended m	anual dial type micro	wave ove	en	Distribute	d by:							
Not sultable for a fe	w specialised produc	cts that u	se the		-							
Incoming wave-form	as reference or for	their ope	ration.									
eg some cheap sha	ver chargers, some	electroni	c									
speed controlled ar	pliances, occasiona	il test ins	trmnts.									
Manufactured by:												
Thheir Automatic	n I Id		L_									

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