

INV-W

Heavy Duty & Railroad Inverters

Description

The INV-W is a series of wall mounting inverters that produce a true microprocessor controlled sinewave output. A variety of DC inputs are available from 24Vdc to 220Vdc. The inverters are housed in compact metal cases with IP54 classification. Heavy duty 2 part connectors with mechanical fastenings are used for the input and output. convection cooling is provided via a heat sink on the wall mount side. The INV-WR 400 & INV-WR 500 are built to meet environmental rail standards making the units ideal for low power locomotive applications. For higher power rail road applications a separate summary detailing the INV-R range is available. Each of these robust units is covered by a 24 month warranty.



- Shortcircuit & overload protection
- No 50Hz transformer
- Railroad versions
- Potential free

Selection Table	,			
Part Number	Maximum Power	Input Voltage	Output Voltage	Output Frequency
INV-W 400-24	400VA	24VDC	230VAC	50Hz
INV-W 400-24-1	400VA	24VDC	115VAC	60Hz
INV-WR 400-24 [*]	400VA	24VDC	230VAC	50Hz
INV-WR 400-24-1*	400VA	24VDC	115VAC	60Hz
INV-W 500-48-60	500VA	48/60VDC	230VAC	50Hz
INV-W 500-48-60-1	500VA	48/60VDC	115VAC	60Hz
INV-W 500-110	500VA	110VDC	230VAC	50Hz
INV-W 500-110-1	500VA	110VDC	115VAC	60Hz
INV-W 500-220	500VA	220VDC	230VAC	50Hz
INV-W 500-220-1	500VA	220VDC	115VAC	60Hz
INV-WR 500-48-60 [*]	500VA	48/60VDC	230VAC	50Hz
INV-WR 500-48-60-01*	500VA	48/60VDC	115VAC	60Hz
INV-WR 500-110 [*]	500VA	110VDC	230VAC	50Hz
INV-WR 500-110-01*	500VA	110VDC	115VAC	60Hz
INV-WR 500-220 [*]	500VA	220VDC	230VAC	50Hz
INV-WR 500-220-01 [*] According to rail norm EN 50155	500VA	220VDC	115VAC	60Hz





sales@etps.co.uk 0800 612 95 75

INV-W

Heavy Duty Inverter

Technical Data

Dutput	INV-W 400	INV-W 500	INV-WR 400	INV-WR 500				
Output Power	400VA/320W	500VA/400W	400VA/320W	500VA/400W				
Voltage		230VAC, failure tolerance ±5% (Option /1 for 115Vac, 60Hz)						
Frequency		50Hz (Option /1 for 115Vac, 60Hz)						
Power Factor		0.8						
Load Range		0 - 100%						
Crestfactor		> 2.5						
Harmonic Distortion		< 3%						
nput Range								
24Vdc	24 (19 - 31)VDC	_	24 (19 - 31)VDC					
48/60Vdc		48/60 (38 - 72)VDC		48/60 (38 - 72)VDC				
110Vdc		110 (88 -132)VDC		110 (77 -143)VDC				
220Vdc		220 (178 - 264)VDC		220 (178 - 264)VDC				
		220(170 204)/000		220 (170 204) 000				
General								
Electrical Safety			oad & shortcircuit protected)	070/ 1				
Efficiency	85% at nominal load	87% at nominal load	85% at nominal load	87% at nominal load				
Galvanic Isolation		3.75 kVDC						
EMC (Emission)		EN 50081-1, Curve EN 55022B						
EMC (Immunity)		EN 50082-2						
Environmental		—		EN 50155, EN50121-3-2)				
Operating Temperature	-25 to +45°C (non condensing)	-25°C to +70°C (n	on condensing)				
lousing								
Casing		Wall mou	inting case					
Size		270 x 115 x 25	5mm (W x H x D)					
Weight		Approx. 5kg						
Classifiaction		IP 54						
Ventilation		Convection via he	atsink on wall side					
lastrical Connections								
Ilectrical Connections		5.4	e 11					
Connector Position		Bottom c						
DC Input AC Output		Harting connector HAN Q5, 3-pole Harting connector HAN Q5, 3-pole						
	Diadaa aayad aadaa ahaa DIN		· ·					
Signals Earthing	Binder round connector Div	Binder round connector DIN 45322 (HAN 80 5-pole opt.) HAN 80, 5-pole (Binder DIN 45322 opt.) Via Harting HAN Q5 (DC-IN) earthing screw on the case						
Larting			earthing screw on the case					
)ther								
Optical Signals	Power/PG,	Power/PG, Overload/OVL		Option 6: Power/PG, Overload/OVL				
Signal Output	Voltage free	Voltage free alarm contact		Option 6: Voltage free alarm contact				
Operation	Si	Switch		For Option 6 Switch used				
Control Input	Option 5: HAN 80	Option 5: HAN 80 for remote operation		HAN 80 for remote operation (optocoupler input)				
Warranty		2 Years						
Options Table								
Code	Description							
	•							
	Unit built with 1							
/1		15Vac, 60Hz output or remote operation						

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.