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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





INV-W

Heavy Duty Inverter

Technical Data

Output Output Power	INV-W 400 400VA/320W	INV-W 500 500VA/400W	INV-WR 400 400VA/320W	INV-WR 500 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)VD0		
General						
Electrical Safety	EN 60950, VDE 0805 (overload & shortcircuit protected)					
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 50	0082-2			
Environmental	-	_	EN 50155, E	N50121-3-2)		
Operating Temperature	-25 to +45°C (non condensing)	-25°C to +70°C (non condensing)			
lousing						
Housing Casing		Wall mou	nting case			
Size		Wall mounting case 270 x 115 x 255mm (W x H x D)				
Weight		Approx. 5kg				
Classifiaction	. — — — — — — — — — — — — — — — — — — —					
Ventilation	Convection via heatsink on wall side					
Electrical Connections						
Connector Position		Bottom o	f unit			
DC Input		Harting connector HAN Q5, 3-pole				
AC Output	Harting connector HAN Q5, 3-pole					
Signals	Binder round connector DIN	45322 (HAN 80 5-pole opt.)	HAN 80, 5-pole (Bind	der DIN 45322 opt.)		
Earthing	Via Harting HAN Q5 (DC-IN) earthing screw on the case					
Other						
Optical Signals	Power/PG.	Overload/OVL	Option 6: Power/	PG, Overload/OVL		
Signal Output		alarm contact	Option 6: Voltage free alarm contact			
Operation		vitch	For Option 6 Switch used			
Control Input		for remote operation	•	eration (optocoupler input)		

Options Table

Code	Description
/5	Unit built with 115Vac, 60Hz outputHAN 80 input for remote operationPower/PG, Overload/OVL signals (diodes), switch operated

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.