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INV-TC3P

3 Phase Sinewave Inverter

Description

The INV-TC3P is used when a 3 phase AC Supply needs to be generated from a DC Source. The system is delivered as 3 separate modules which are all powered from a nominal 48Vdc. These compact units are ideal for stand alone applications where the batteries are charged from photo voltaic arrays or DC generators. A wide cos phi with peak power capability helps to make this inverter system is suitable for many motor type AC Loads that require a relatively high start up current. The INV-TC3P is built with a variety of protection features. The output is protected from both short circuit and overloaded conditions. To protect itself the inverter will switch the output off. Automatic restart attempts are made every 30 seconds in case the fault is transitory. The input is constantly monitored to ensure that the voltage range is within the tolerances permitted. The unit will automatically disconnect the input if the voltage is too low. This is done in order to save the battery from a damaging deep discharge. The actual low cut out voltage is dependent on the load and the power being drawn. Resettable DC breakers are provided on the unit. Insulated relay contacts are also available for signalling failure. A switch can also be wired to the master unit to allow all three phases of the inverter system to be turned on and off remotely. The wide operating temperature range helps to ensure the INV-TC3P is ideal for the majority of locations.



- 3 phase True Sinewave Output
- High Conversion Efficiency
- Automatic Restart
- 2 Year Warranty
- Remote On/Off

Selection Table

Part	Max Continuous	Input	Output	Max Output
Number	Output Power	Voltage	Voltage	Current
INV-TC3P 10-48	9.6kVA	48VDC	3 * 230/400VAC	3 * 17A

Options Table

Code	Description
/19" Rack	Unit built into a 19" rack



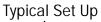


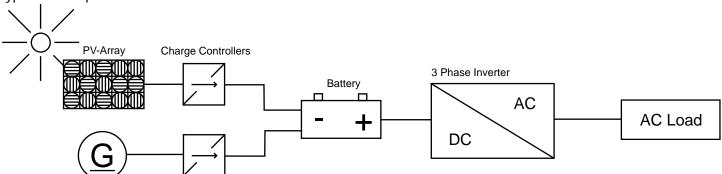
INV-TC3P

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Technical Data

Model Specification	INV-TC3P 10-48
Rated Voltage UDC _{IN}	48V
Input Voltage Range	42.0 - 64.0VDC
Dynamic Low Voltage Cut Off	42.0 - 36.0VDC
Rated Current IDC _{IN}	3 * 83A
Current IDC _{IN} max.	3 * 251A
Rated Power $P_{10}(10 \text{min at TA} = 20^{\circ} \text{C})$	11.7kVA (10min at TA = 20°C)
Rated Power P_{30} (30min at TA = 20°C)	10.5kVA (30min at TA = 20°C)
Continuous Power P _D	9.6kVA
Rated Output Voltage UACout	3 * 230/400 VAC ±2% (short circuit proof)
Output Frequency	50Hz ±0.5% (true sinewave)
Rated Output Current IAC _{OUT}	3 * 17A
Short Circuit IAC _k (max. 0.5s)	3 * 38A
Allowable CosPhi	0.3 - 1
Efficiency Factor max.	93%
Consumption 230VAC OK	3 * 16W
Reset after Short Circuit	Every 60s
Reset after Overload	Every 60s
Reset after Overtempetature	Automatically after reaching semiconductor temperature +45°C
Reset after Battery Failure	Automatically after reaching UDC _N
Conoral	
General	-25°C to +85°C (max. 95% rH, non condensing)
Ambient Temperature Range DC- Breaker/Fuse	3 * 100A
Remote Control ON/OFF	Yes, via external switch connected to master unit
Status Indication	LED
Alarm Contact	Yes
Toroidal Transformer	EN61558 (IEC61558)
Temperature & Load Controlled Fan	ON 55°C/OFF 45°C, PD >80%
Dimensions (L x W x H)	3 * 456 x 320 x 211mm
IP Protections	S 436 x 320 x 2 1 1111111
Standards	CF
Weight	90kgs (3* 30kgs)
Warranty	2 years
warranty	2 jours





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.