

IPSi365
INTELLIGENT PURE SINE INVERTER

The IPSi365 is a high performance, low frequency DC/AC inverter designed for military and industrial applications. The IPSi365 is capable of delivering 360 volt-amps continuous and 432 volt-amps at peak with a efficiency of over 85%.

Due to its topology the inverter features exceptionally low EMC on the input as well as on the output. The inverter has built in ground fault protection that ensures safety of personnel as well as extra protection of connected equipment. The unit features programmable low input volt shutdown and delay and programmable output of 100-120 VAC or 200-240 VAC @ 50 or 60 Hz.

Designed with safety and reliability in mind, this unit is built standard with battery low voltage alarm with shutdown, output over voltage protection, over-temperature derating and shutdown, output short circuit protection, overload protection and shutdown and input reverse polarity protection.

5 YEAR WARRANTY



Available models

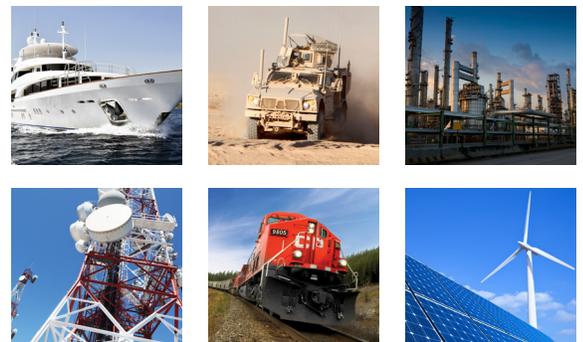
Input

12V	20V	40V
-----	-----	-----

Output

110V	220V
------	------

Applications



IPSi365 | INTELLIGENT PURESINE INVERTER

INPUT	-12	-20	-40
Nominal Voltage	12 VDC	24, 28, 32 or 36 VDC	48 or 72 (Rail) VDC
Actual Voltage	10.5-18 VDC	19-48 VDC	39-84 VDC
Maximum Current	49 A	28 A	14 A
Input Fuse	2x 30A 32 VDC Blade Mini Fuses	1x 30A 58 VDC Blade Mini Fuse	1x MDA - 15 A Fuse
Low Voltage Input Shutdown Range	10.5-14 VDC Range (Default setting: 10.5 VDC)	19-36 VDC Range (Default setting: 21 VDC)	39-70 VDC Range (Default setting: 42 VDC)
Low Voltage Input Startup Range	11-14 VDC Range (Default setting: 11.5 VDC)	20-36 VDC Range (Default setting: 23 VDC)	40-70 VDC Range (Default setting: 44 VDC)
Low Voltage Input Shutdown Delay	1-120 seconds (Default setting: 30 seconds)		
High Volt. Input Shutdown	19 VDC	49 VDC	86 VDC
Inrush Current (From fully discharged)	1.8 Amp Peak	4.8 Amp Peak	8.4 Amp Peak

OUTPUT	-110	-220
Nominal Voltage	110 VAC	220 VAC
Output Current	3 A (Continuous) / 3.6 A (Peak)	1.5 A (Continuous) / 1.8 A (Peak)
Output Voltage Adjustment	±10 VAC	± 20 VAC
Regulation (Line & Load)	+/- 2 VAC	+/- 3 VAC
Output Frequency	50 or 60 Hz (User-selectable)	
Output Distortion (THD)	< 2% @ 360 VA Resistive load	
Duty Cycle	24 hours/day @ 100% / 1 min @ peak with 10 min cooldown	
Efficiency	85% @ Full Load	
Ground Fault Trip Current	4-6 mA	

MECHANICAL

Dimensions	13.0 in / 32.8 cm x 8.0 in / 20.3 cm x 3.3 in / 8.3 cm (Length x Width x Height)
Clearance	1.0 in / 2.5 cm all around
Weight	16.0 lb / 7.3 kg
Material and Finish	Marine Grade Black Anodized Aluminum
Fasteners	18-8 Stainless Steel
Output Connections	Hardwire: Phoenix VDFK4 32 Amp / 500V terminal block 110 VAC Model: NEMA 5-15 receptacle 220 VAC North America Model (220N): NEMA 6-20 receptacle 220 VAC Worldwide Model (200W): 220V Universal receptacle
Input Connections	AC: Phoenix VDFK4 32 Amp / 500V terminal block (A Option Only) DC: Phoenix VDFK6 50 Amp / 300V terminal block
Other Connections	Data/Communication: MicroUSB port Remote Control: RJ45 'telephone jack' connector with proprietary pinout

ENVIRONMENTAL AND SAFETY

Operating Temperature	-25°C to +40°C @ Full Load (-40°C to +55°C extended operating temperature option available)
Storage Temperature	-55°C to +105°C
Cooling	Thermostatically-controlled cooling fan
Humidity	0 - 95% relative humidity (non-condensing) with standard conformal coating
Audible Noise	< 27 dB @ 3 ft/ 1m with fan running
Typical Service Life	> 10 years (87,600 hrs)
Isolation	Input to Chassis: <1100VDC. Input to Output, Output to Chassis: <1500 VAC
Warranty	Three Years Parts and Labor
Safety	Complies with FCC Class B, Part 15

Note: Specifications are subject to change without notice.

OPTIONS

Military Ruggedization: MIL-Spec connectors and features extra-wide operating temperature -25°C to +55°C

COTS: Military ruggedization package with both MIL461F and MIL810G compliance testing with reports

Special Safety Inspection: Inspected and certified to meet CSA C22.2 No.107.1 and UL 458

Offline UPS: Built with AC Input and Line AC Detect & Autoswitch UPS

Remote Control: Built the remote control port and supplied with Analytic Systems digital remote control.

ALTERNATIVE 220V OUTLETS



North America 220V Outlet (220N Option)

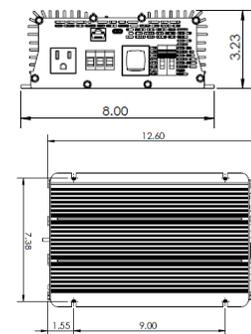


Worldwide 220V Outlet (220W Option)



Hard Wired Connection (Can be combined with any outlet)

DIMENSIONS



ANALYTIC SYSTEM
Power Conversion Solutions

defense.tecknowledgey.com

Info@tecknowledgey.com

914.739.4499

Tecknowledgey Defense
8 John Walsh Blvd
Peekskill, NY 10566