Who We Are

PSP is a company specialized in custom design, manufacturing and servicing of power electronics equipment for ICT, industrial, oil & gas and energy applications. PSP R&D department is one of the most complete regarding the different disciplines in the field of power conversion.

Long experience in semiconductors and magnetic component design is combined with the most advanced digital regulation algorithms and microcontroller programming know-how.

PSP has a leading position in the oil and gas market thanks to its proven customizing expertise and continuous pursuit of excellence in a state-of-the-art product. However, wide experience in several branches of power electronics such as UPS systems for data centers and inverters make PSP a leader in this technology not only for oil and gas applications.

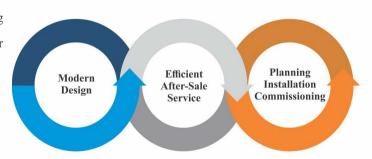
Services

With over 40 years of expertise in power electronic systems, PSP is renowned for its unparalleled services and technical support in critical application environments. The reliability of your installed power solution is supported by a global service team renowned for its short response time and trouble shooting efficiency. Choosing PSP preventive maintenance options gives you the ultimate peace of mind reassuring complete cost control, security and uninterrupted power supply in utmost critical situations.





Listening to our customers and delivering state-of-the-art, tailored systems has been our vocation for more than 45 years





INDUSTRIAL THREE-PHASE INVERTERS

PSP IN Industrial Inverter Three Phase Output

400 V line to line, 10-100 kVA

Engineering is Our Business

Inverter and UPS solutions engineered by PSP Power Solutions have been protecting oil and gas infrastructure, power stations and other industrial applications for more than 40 years.

Designed for all industrial applications

PSP5.INV, the latest generation of our inverter product range is extremely robust, both electrically and mechanically. It is custom-designed for use in harsh industrial environments to meets the toughest product customization requirements:

- » Specific mechanical protection degree
- » Specific input and output voltage
- » Customized documentation

PSP5.INV is just a part of the product range of inverters and UPS's suitable for industrial applications.

PSP Inverters for Industrial Applications

- » Oil and gas (petrochemicals, offshore, onshore, pipelines)
- » Energy and electricity generation (power generation, transmission, distribution)
- » Water (desalination, treatment)
- » Instrumentation and process control (chemicals, mining, steel, paper)
- » Emergency lighting
- » Telecommunication systems

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Tektronix TDS 2014C FOUR CHANN

PSP.IN Specification

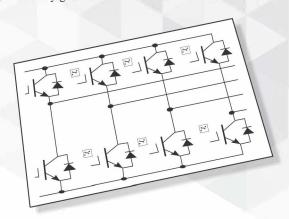


Features and Benefits

- Built-in inverter transformer for DC-AC galvanic separation
- IGBT, PWM controlled inverter for high efficiency and low output THD
- High personalization grade with new mimic display for signals, alarms, meters
- History events continuous monitoring
- Comprehensive set of communication options for total remote monitoring of equipment operation.
- New four-leg design for providing fully balanced three phases out put voltage under any grade of unbalanced and non-linear loads.

Main Options

- \checkmark Bypass line isolation transformer with new generation of AC/AC
- dynamic voltage restorer with active filter features
- ✓ Improving the harmonic distortion of main in load side
- ✓ Fast transient response to main voltage fluctuations
- ✓ Output voltage regulation lower than 0.5% with very high resolution
- ✓ Automatic bypass capability under unit failure
- ✓ Lower maintenance service in comparison with traditional designs
- ✓ Higher mean time between failures
- ✓ Custom design for high power applications up to 400kW



Model	IN11510 IN22010	IN11520 IN22020	IN11530 IN22030	IN22040	IN22050 IN40050	IN40070	IN40100	
Nominal Rating (at cos φ 0.8 lag)	10kVA	20kVA	30kVA	40kVA	50kVA	70kVA	100kVA	
INVERTER UNIT								
DC input ±20%	110 V 220 V	110 V 220 V	110 V 220 V	220 V	220 V 380-400 V	380-400 V	380-400 V	
Nominal Ac voltage	230V (220V-240V)-400 V line							
Output voltage static response	< ±1%							
Recovery time	< 4ms							
Frequency	50/60 Hz (selectable), ± 0.001 Hz free runing, ± 2Hz synchronized with mains							
Crest Factor	Max 3							
Total Harmonic Distortion-THD	<1% Linear load; <5% non-linear load							
Overload capacity	125% for 10 min; 150% for 1 min; 200%for 100 ms							
Static Bypass Switch	Equipped with new generation of Stabilizer unit							
AC voltage	230 V (220 V, 240 V)-400 V line to line							
Frequency	50 Hz / 60 Hz							
Efficiency	Up to 92%							
Maximum weight(kg)	300	400	500	600	700	800	900	
Dimensions W×D(mm)	Height is 2100 mm, width varies with output voltage range and rating							
	90x60	90x60	90x60	90x90	120x90	120x100	120x100	



PSP.INSpecification

-10°C ÷ +50°C				
-20°C ÷ +70°C				
<2000m (derating according to EN62040)				
<55 - 65 dB(A) - dependsing on rating				
Ral 7032, Ral 7035				
Up to 94%				
Forced ventilation				
IP20/IP21/IP42 (other options)				

SPDT contact relay card
Optional: RS232 serial port, RS485 Modbus-RTU serial ports
Ethernet SNMP/WEB adapter, remote monitoring software
Server Shutdown software

INDICATORS & ALARMS

INVERTER/AVR FAULT

INPUT/OUTPUT AC ABNORMAL

OVER HEAT

Connectivity

OVER LOAD/SHORT CIRCUIT

DC LOW

WEAK BATTERY

INVERTER/AVR ON/OFF

SBS NORMAL/BYPASS

FREQUENCY FAIL

DC/AC EARTH FAULT

SERVICE MODE

AVR ON/OFF

MBS MODE

