Soltec

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ALP-Inverter Series

10kVA-240kVA 110V/220VDC

Features

- Advanced technology DSP,IGBT components
- Wide input range, robust design for harsh environment
- Multi-CPU and Software/Hardware cooperate control
- DC start function, can be started without AC
- True galvanic isolation design
- Modular design for easy maintenance and minimize MTTR
- Intelligent, safe and unique battery management system
- Variety of accessory
- Parallel operation
- Specifications can be customized

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Features & Advantages

Advanced technology DSP, IGBT and switching components:
To increase the reliability and efficiency.

True Galvanic isolation design:
Each of the Inverter has true galvanic isolation on the output, which isolates the AC output under every mode of operation.

Multi-CPU design and software/hardware cooperate control:
Several CPUs are employed in the control circuit, critical functions are designed to parallel redundancy to improve reliability.

Redundant power supply:
An extra power supply is connected redundantly to supply power of the static switch, so that, there will be AC output no matter what happen to the Inverter.

Plug & play modular design:
The unique design of the Inverter incorporates plug-and-play modules. The power circuit of the Inverter has a modular design, which allows for each power circuit to be easily removed for quick maintenance and troubleshooting.

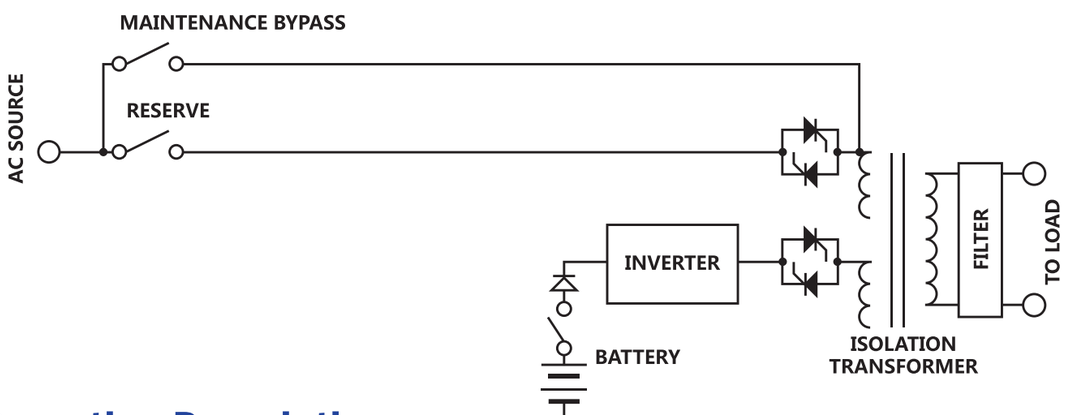
Each phase with individual inverter supporting:
Characteristics will not be violated under 100% unbalance load (for 3 phase output).

User friendly control design:
Inverter is designed with breaker on/off sensor, power supply sensor etc.. Therefore, any operational mistake made by the user causes no harm to the Inverter.

Intelligent fan speed control:
Fans will slow down under light load, so that the life expectancy of the fans is longer than it is specified. MTBF of fans are extended.

Various interface options:
Remote control panel, software for PC monitoring, SNMP card, MODBUS and emergent stop switch are available.

1+1 Parallel Operation (option):
To increase the capacity and reliability. Load is equally shared between paralleled units. When one of the units has problem, the other units continue running without output interruption. No site adjustment is required.



Operation Description

The INVERTER system is mainly composed of input filter & protection network, inverter, static switch, bypass breaker, isolation transformer and output filter. The basic topology is shown in the diagram above. source failure.

MODEL	ALP-INV -10K	ALP-INV -20K	ALP-INV -30K	ALP-INV -40K	ALP-INV -50K	ALP-INV -60K	ALP-INV -80K	ALP-INV -100K	ALP-INV -120K	ALP-INV -160K	ALP-INV -200K	ALP-INV -240K
kVA	10	20	30	40	50	60	80	100	120	160	200	240
DC INPUT												
Input Voltage	110 / 220 / 348Vdc (customized)											
INVERTER												
Output Voltage	220V / 380V / 460V, 208VY / 380VY / 400VY / 415VY, 220/230/240Vac, 1Φ2ωor3ω ± 1 % Special spec. can be customized											
Wave Form	Sine wave											
Output Power Factor	0.8											
Frequency Lock Range	50 / 60 Hz ± 3Hz											
Output Frequency (Free Running)	50 / 60 Hz ± 0.1 Hz											
Phase Shift Under 100% Unbalance Load	< 0.5											
THD (Linear Load)	< 3 %											
Overload	<110%	Continuous										
	110~124%	15 minutes										
	125~149%	5 minutes										
	≧ 150%	30 seconds										
STATIC SWITCH												
Voltage Range	173-277 VAC (L-N)											
Mains Inverter	0 ms											
OVERALL CHARACTERISTICS												
Temperature	0 - 40 °C (32 - 104 °F)											
Humidity	0% - 90% (non-condensing)											
Altitude	<1500M above sea level											
EN50091-1,-2	Yes											
Short Circuit Protection	Yes											
Lightning / EMC Filter	MOV / Input&Output (FCC CLASS A)											
Galvanic Isolation	Input&Output true galvanic isolation											
LED,LCD,Buzzer	Yes											
Remote Control /Communication Interface	Monitoring 1~99 UPS simultaneously / Dry contact, RS232, RS485											

∗ **Different specifications required are available**
∗ **All specifications mentioned above are subject to change without prior notice**