

PROTEK

**Industrial
Type Design**
Suitable for
All Applications

特別なオプションで全ての日本製機械に適合可能。
3相交流380ボルト4線式を3相交流200/220
ボルト3線式にコンバート。

ALP Series 10-1000kVA

True On-Line Double Conversion

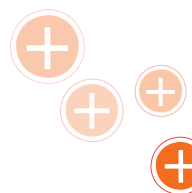
UPS / Inverter / Voltage-Frequency Converter

สำรองไฟ / เปลี่ยนไฟฟ้า DC-AC / ปรับแรงดัน-ความถี่ไฟฟ้า

Full Digitalized Intelligent Galvanic Isolation Design

Features

- Advanced Technology DSP, IGBT Components
- Wide Input Range, Robust Design For Harsh Environment
- Multi - CPU and Software / Hardware Cooperate Control
- True Galvanic Isolation Transformer Design
- Automatic & Manual Static Bypass Switch
- Each Phase with Individual Inverter Supporting, allow 100% unbalance load capabilities
- Eco Design with High Efficiency and Low THD
- Advanced Battery Charging Management
- Fully Protection Over & Under Voltage, Spike & Surge Suppression, Short Circuit Protection...etc.
- Modular Design for Easy Maintenance
- N+X Parallel Redundancy Operation (Optional)
- EPO - Emergency Power Off Function (Optional)



All Specification Can be Customized

- 1 Voltage** : 190/200/208/380/400Vac
415/440/480/600Vac
- 2 Phase** : 1P2W / Δ 3P3W / Y 3P4W
- 3 Frequency** : 50/60/400Hz

* SPECIFICATIONS : True On-line Double Conversion With Isolated Transformer

ALP Series																
Appearance >																
	MODEL ■															
ALP	3P Input / 1 P Output ▶	10K	20K	30K	40K	50K	60K	80K	100K	120K	160K	200K				
ALP	3P Input / 3 P Output ▶	10K	20K	30K	40K	50K	60K	80K	100K	120K	160K	200K	240K	320K	400K	
Power Rating	kVA	10	20	30	40	50	60	80	100	120	160	200	240	320	400	
	kW	8	16	24	32	40	48	64	80	96	128	160	192	256	320	
INPUT	-Rectifier															
Voltage (Vac)	190 / 200 / 208 / 380 / 400 / 415 / 440 / 480 / 600V (Y3P4W or Δ3P3W)															
Input Range	± 20% (>± 20% is Available Upon Request)															
Frequency (Hz)	50 / 60 / 400Hz ± 5Hz															
Power Walk In	0% - 100% : 20 Secs															
Efficiency	> 98%															
OUTPUT	-Inverter															
Voltage (Vac)	3P Input / 1P Output ▶	100 / 110 / 120 / 220 / 230 / 240V ± 1% (Y1P3W or Δ1P2W)														
	3P Input / 3P Output ▶	190 / 200 / 208 / 380 / 400 / 415 / 440 / 480 / 600V ± 1% (Y3P4W or Δ3P3W)														
Wave Form	Pure Sine Wave															
Output Power Factor	0.8															
Frequency Lock Range	50 / 60 / 400Hz ± 3Hz															
Output Frequency (Free Running)	50 / 60 / 400Hz ± 0.1Hz															
Phase Shift Under 100% Unbalance Load	< 0.5															
THD (Linear Load)	< 2%															
Overload	< 110%	Continuous														
	110 - 125%	15 minutes														
	125 - 150%	10 minutes														
	> 150%	30 seconds														
Efficiency (100% Load)		95%		95.5%		96.5%		97%								
BATTERY																
Battery Type / Pcs	Maintenance Free Sealed Lead - Acid Batteries / 12V x 29pcs															
Maximum Charge Current Adc (Selectable)	5	10	15	20	25	30	40	50	60	80	100	120	160	200		
Battery Start	Yes, UPS Can be Started Without AC Source															
SYSTEM FEATURES																
Approval	FCC Class A, EN50091-1, -2, UL, ISO9001															
Automatic & Manual Bypass	0 msec (Mains ↔ Inverter by Static Transfer Switch)															
Maximum Heat Dissipation (kW)	1.1	1.3	1.9	2.6	3	3.5	4.6	5.4	6.5	8.7	11.5	13	17.4	21.7		
Audible Noise (dBA)	< 58dBA (At 1 M)						< 60dBA (At 1 M)						< 65dBA (At 1 M)			
Temperature	0 - 40°C; 32 - 104°F															
Humidity / Altitude	0% - 90% (Non - Condensing) / < 150M Above Sea Level															
Short Circuit Protection	Rectifier, Reserve, and Bypass., True Galvanic Input - Output Isolation															
Protection System	Automatic Self - Diagnostics Test, Input Over & Under Voltage, Output Over & Low Voltage, Output Stabilizer, Overload, Low & End - Discharger Battery, MOV Surge & Short - Circuit, EMI & RFI Noise Filter, Over Temperature, **Reversed Energy Absorber															
Indicator & Alarm	LCD, LED, Mimic Display, Buzzer															
Remote Control / Communication Interface	Monitoring 1 - 99 UPS Simultaneously / Dry Contact, RS232, RS485 (USB / J-BUS / MODBUS / PROFIBUS / HTTP / SNMP are Optional)															
PHYSICAL																
Dimension (cm) (W x H x D)	55 x 160 x 80						110 x 160 x 80				220 x 160 x 80					
	330 x 160 x 80 (400k)															
Weight (Kg - Without Battery)	270	300	400	480	550	680	820	950	1180	1450	2500	2900	3100	3500		

* Specifications are subject to change without prior notice.

** Optional of Specifications

*** Different specifications required are available.

Spec. STD.12-10-15



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