



UPS (Uninterrupted Power Supply)

MEMO POWER SERIES

BI- PHASES PF=0.9 (Optional PF=1.0)

KSTAR

SHENZHEN KSTAR SCIENCE AND TECHNOLOGY CO. LTD.



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FEATURES

- Parallel operation with up to 4 UPS (no need of external cabinet)
- True Online double conversion with DSP controller (classification type VFI-SS-111)
- Power configuration options: 2P+N+G / 1P+N+G / 2P+G
- High output power factor PF: 0.9 or 1.0
- Optimization battery group: 16/18 (20 Optional)
- Wide input voltage range 72-159 VAC
- Voltage inverter based in IGBTs
- Input generator supported
- ECO operation mode supported
- Self-testing function at startup
- Internal solid state bypass.
- Internal VRLA batteries.
- Battery charger according to DIN 41773
- Support cold start up
- Network card compatible (model CY504 - see card manual for full specs)
- Monitor for input/output/status/statistics through network card.
- Options: SNMP card v3 /relay card
- Rack mount option available
- Output isolation transformer included in UPS (optional for 120 VAC output)
- Audible and visual alarms for main UPS status (bypass/on battery/fail/overload - alarms can be silenced by user at the front panel).



Control Panel

TECHNICAL SPECIFICATIONS

MODEL	MEMOPOWER	MEMO S/H 6KVA	MEMO S/H 10KVA
	CAPACITY (KVA / KW)	6KVA / 5.4KW - 6KVA / 6KW	10KVA / 9KW - 10KVA / 10 KW
INPUT	Harmonic distortion (THDi)	$\leq 3\%$ THDi (100% linear load)	
	Rated Voltage	208 Vac	
	Voltage Range	176Vac-300Vac at 100% load, 110Vac-300Vac at 50% load	
	Frequency Range	50 Hz +/- 10%, 60 Hz +/- 10%	
	Phase	Single phase	
	Power Factor	≥ 0.99	
	Generator Input	Support	
	Power Factor	> 0.98	
	Generator Input	Support	
	Bypass Voltage Range	208 Vac (Phase voltage) Upper limit: +10%, +15%, +20%, +25% (Default setting: +15%) Lower limit: -10%, -20%, -30%, -40% (Default setting: -20%) Frequency range: +/- 10%	
OUTPUT	Phase	Bi-Phases	
	Voltage	208/220/230/240Vac; 104*2/110*2/115*2/120*2Vac; 50/60Hz	
	Power Factor	0.9 - 1.0	
	Voltage Regulation	$\pm 1\%$	
	Frequency (Line Mode)	' +/- 1%, +/- 2%, +/- 4, +/- 5%, +/- 10% of rated frequency (set by software)	
	Frequency(Battery Mode)	50/60Hz ± 0.2 Hz	
	Current Crest Ratio	3:1 (Max)	
	Harmonic Distortion	$\leq 2\%$ THD(Linear Load)	
		$\leq 5\%$ THD(Non-Linear Load)	
	Output Waveform	Pure Sinewave	

TECHNICAL SPECIFICATIONS

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	CAPACITY (KVA / KW)	6KVA / 5.4KW - 6KVA / 6KW	10KVA / 9KW - 10KVA / 10 KW
EFFICIENCY	AC Mode	Full load>=94%	
	Battery Mode	Full load>=80%	
BATTERY	Number of Batteries Per Set	16/18/20	
	Design life (years @25 C):	5	
	Battery Type	12V	
	Backup Time	Estimated remaining time displayed on the LCD (according to battery options)	
	Charging Current(Max)	6A	
	Rated Battery Voltage	96/108/120 Vdc	
	EOD Voltage	1.75 V/cell (selectable from 1.60 or 1.90V/cell) Auto Inverse EOD voltage x discharge current mode(The end of discharge voltage increases at low discharge currents)	
TRANSFER TIME	Mains <- ->Battery	0ms	
	Mains <- ->Bypass	<15ms (50 Hz) ; <13,33 ms (60 Hz)	
PROTECTION	Overload (AC mode)	60 min @ Load <= 110% 10 min @ Load <= 125% 1 min @ Load <= 150% Shut down @ Load > 150%	10 min @ Load <= 126% 1 min @ Load <= 127% Shut down @ Load > 127%
	Overload (Bat mode)	10 min @ Load <= 110% 1 min @ Load <= 125% 5 sec @ Load <= 150% Shut down @ Load > 150%	Shut down @ Load > 100%
	Overload (Bypass mode)	Breaker 100A	Breaker 125A
	Overheat	Line mode: Switch to bypass Backup mode: Shut down UPS	
	Self diagnostic	Upon Power On and Software controller	
	EPO (Optional)	Shut down UPS output	
	Battery	Advance Battery Management	
OPTIONAL FEATURES	Economic Mode(ECO Mode)	Supported	

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	CAPACITY (KVA / KW)	6KVA / 5.4KW - 6KVA / 6KW	10KVA / 9KW - 10KVA / 10 KW
DISPLAY	Status LED & LCD	Line mode, Bypass mode, Battery Status, Overload and Fault	
	Reading On the LCD	Load/Battery/Frequency/Inner Temperature/Input/Output/Bypass/Operating Mode Information – Battery support time remaining	
ALARMS	Audible & Visual	Line Failure, Low Battery, Overload, System Failure	
PHYSICAL	Dimension(W*D*H)mm	S Model: 810*250*675 H Model: 250*502*616	
	Net Weight(kg)	55/21	58/22
ENVIRONMENT	Operating Environment	0-40°C	
	Relative Humidity	0-95%(non-condensing)	
	Noise Level	<55dB@ 1Meter	
INTERFACE	Smart RS-232/USB	External Modbus card supported by RS232,Software supports Windows Family, Linux, FreeBSD	
STANDARDS	Safety	CE, EN/IEC 62040-1,CE, EN/IEC 62040-2,CE, EN/IEC 62040-3	

Specifications are subject to change without prior notice.

Output isolation transformer (K13) in external cabinet available upon request.

MEMO S/H Models:

- S UPS with internal batteries (when available)
- H UPS without internal batteries (only can be connected to external battery cabinet)