

KO Plus 3/1 Series Features:

- ✓ Pure Sine Wave Online Double-Conversion
- ✓ Wide Input Voltage Range
- ✓ Output PF 0.9
- ✓ Eco mode operation for energy saving (ECO)
- ✓ Generator Compatible
- ✓ EPO (Emergency Power Off) Available
- ✓ Frequency Mode: 50Hz/60Hz Convertible
- ✓ 3-Stage Charging Design for Optimized Battery Performance
- ✓ Battery Numbers are Adjustable
- ✓ Built-in phase auto adapt function simplifies wire installation
- ✓ N+X parallel redundancy available (Optional)
- ✓ SNMP Network Management Card (Optional)



Knight Online Plus Rackmount Series (3 Phase in / 1 Phase out)

MODEL		KO Plus 3/1- 10KR KO Plus 3/1- 10KRL	KO Plus 3/1- 15KR KO Plus 3/1- 15KRL	KO Plus 3/1- 20KR KO Plus 3/1- 20KRL
INPUT	Capacity	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW
	Phase	3 Phase in / 1 Phase out		
	Nominal Voltage	3 x 400 VAC (3 Ph+N)		
	Voltage Range	190 ~ 520 VAC (50% load) / 305 ~ 478 VAC (100% load)		
	Frequency	46 Hz ~ 54Hz or 56 Hz ~ 64 Hz		
	THDI	Less than 6% (100% load)		
OUTPUT	Wave Form	Pure Sinewave		
	Output Voltage	208/220/230/240 VAC		
	AC Voltage Regulation	Battery Mode : +/-1%		
	Frequency	Line Mode : 46~54 Hz or 56~64 Hz Battery Mode : 50Hz or 60Hz (±0.1Hz)		
	Transfer Time	AC to Battery Mode : Zero Inverter to Bypass : Zero		
	Harmonic Distortion	≤ 2% THD (Linear Load) ≤ 5% THD (Non-Linear Load)		
BATTERY	Battery Type	Maintenance Free Sealed Lead-Acid Battery		
	Capacity	12V / 9.0Ah (18 ~ 20 pcs)	12V / 9.0Ah * 20 pcs (18~20 pcs)x 2 strings	
	Built-In Charger	1A	2A	2A
	Recharger Time	Approx. 9 Hours to 90% Capacity Recovery		
	Charging Voltage	273 VDC (Battery usage: 20 pcs)		
		Long-Run Type		
	Charging Current (max.)	4A	4A	4A
	Charger Voltage (+/-1%)	273 VDC (Battery usage: 20 pcs)		
	Battery Handle	Fully Recharge UPS After Complete Discharge or Every Three Months When Stored		
DISPLAY	LCD	Load Level, Battery Level, AC Mode, Battery Mode, Discharging Time, I/P & O/P Volt.,Fault Indicators		
AUDIBLE ALARM	Overload	Beep Sound Twice Every Second		
	Battery Mode	Beep Sound Every 4 Seconds		
	Battery Low	Beep Sound Every Second		
	Faulty Conditions	Beep Sound Continuously		
INTERFACE	USB/Smart RS232	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux, MAC		
	SNMP Card (Optional)	Power Management via SNMP Manager & Web Browser		
ENVIRONMENT	Humidity (@0- 40°C)	0-95 % RH @ 0- 40°C (Non-condensing)		
	Acoustic Noise	< 58 dB at 1mt	< 60 dB at 1mt	< 60 dB at 1mt
DIMENSIONS	Standard (W x H x D) (mm)	UPS Unit : 438*133*668 [3U] Bat. Pack : 438*133*580 [3U]	UPS Unit : 438*266*668 [6U] Bat. Pack : 438*133*580 [3U]	
	Long-run (W x H x D) (mm)	438*133*668 [3U] 438*266*668 [6U]		
NET WEIGHT	Standard (kgs)	UPS Unit : 22 Bat. Pack : 63	UPS Unit : 45 Bat. Pack : 63 x 2pcs	
	Long-run (kgs)	22 45		

* Specification Subject to Change without Prior Notice.