



1KVA - 3KVA

PowerBridge ONE+ RT Series True Double Conversion Online UPS

The PowerBridge ONE+ RT series is a true double conversion online single-phase UPS that comes in tower and rackmount 2-in-1 convertible design. This series comes with an output power factor of 1.0.

The PowerBridge ONE+ series comes with an easy-shift rotatable LCD panel to meet various installation requirements while also ensuring proper viewing orientation for users monitoring the UPS system. An Emergency Power Off (EPO) function is available which allows UPS to be shut down in the event of an emergency.

The PowerBridge ONE+ series system is designed to provide clean, high-quality power to critical devices such as sensitive networks, small computer centers, servers, medical equipment, telecom applications, and industrial applications.

Features

- Tower/Rackmount 2 in 1 Convertible Design
- User Friendly LCD Display
- Unity Output Power Factor - 1.0
- Wide Input Range (110V - 300V)
- ECO Mode Function for Energy Saving
- Programmable Power Management Outlets
- Hot Swappable Battery Design
- Provides Over Voltage Cut-Off Protection & Surge Immunity by MOV for full Time Equipment Protection
- Low Input THDi to Reduce Power System Pollution
- Comes with RS 232 & USB Port, SNMP Slot and Power Management Software



Telecommunication System



Data Center



Financial System



Precision Instruments



6KVA - 10KVA

Rear Panel

1KVA - 3KVA



PowerBridge ONE+ 1K



PowerBridge ONE+ 2K



PowerBridge ONE+ 3K

- 1. IEC Output Socket
- 2. Input Socket
- 3. SNMP Network Management Card Slot
- 4. EPO

- 5. USB Port
- 6. RS 232 Port
- 7. RJ 45 (1in1out) Network/Fax/Modem
- 8. External Battery Connection

Rear Panel

6KVA - 10KVA



PowerBridge ONE+ RT 6K/KS - 10K/KS

- 1. Input/Output Terminal
- 2. Intelligent Slot
- 3. Battery Connector
- 4. Input Breaker

- 5. Emergency Power Off (EPO) Connector
- 6. USB Port Communication Port
- 7. RS 232 Port Communication Port
- 8. Parallel Connection

Technical Specification:

MODEL	PowerBridge ONE+ RT 1K	PowerBridge ONE+ RT 2K	PowerBridge ONE+ RT 3K
CAPACITY (KVA/WATTS)	1KVA / 1000W	2KVA / 2000W	3KVA / 3000W
INPUT			
NOMINAL VOLTAGE	200/208/220/230/240VAC		
VOLTAGE RANGE	110 - 300VAC (Based on load at 50%)		
	160 - 280VAC (Based on load at 100%)		
FREQUENCY RANGE	40Hz ~ 70Hz		
PHASE	Single Phase with Ground		
INPUT POWER FACTOR	≥ 0.99 @ Nominal Voltage (100% Load)		
HARMONIC DISTORTION (THDi)	<5% @ nominal input voltage		
OUTPUT			
OUTPUT VOLTAGE	200/208/220/230/240VAC		
OUTPUT POWER FACTOR	1.0		
VOLTAGE REGULATION (Batt. Mode)	± 1%		
FREQUENCY RANGE (Synchronized Range)	47Hz ~ 53Hz or 57Hz ~ 63Hz		
FREQUENCY RANGE (Batt. Mode)	50Hz ± 0.1Hz or 60Hz ± 0.1Hz		
CURRENT CREST RATIO	3 : 1		
TOTAL HARMONIC DISTORTION (THDv)	≤ 2% @ Linear Load ; ≤ 4% @ Non-Linear Load		
WAVEFORM	Pure Sinewave		
TRANSFER TIME (AC to DC)	Zero		
TRANSFER TIME (Inverter to Bypass)	4 ms (Typical)		
OUTPUT SOCKET	8 x IEC C13 Socket		8 x IEC C13 + 1 x IEC C19 Socket
EFFICIENCY			
AC MODE	≥ 89%		≥ 91%
ECO MODE		≥ 96%	
BATTERY MODE	≥ 88%		≥ 90%
BATTERY			
BATTERY TYPE	12V 7AH	12V 7AH	12V 9AH
BATTERY NUMBERS	3	6	6
BACKUP TIME	20 - 30 minutes depending on load		
RECHARGE TIME	3 Hours to 95% capacity for internal battery @ 2A charging current		
CHARGING CURRENT	200/208/220/230/240VAC models: default 2.0A max. 12A Adjustable		
CHARGING VOLTAGE	41.1 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%
STATUS INDICATION			
LCD DISPLAY	Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault		
AUDIBLE ALARM	Battery Mode, Low Battery, UPS Fault, Overload		
COMMUNICATION			
POWER MANAGEMENT SOFTWARE	Support Window Family, Linux & MAC		
INTERFACE	USB & RS-232 Communication Port		
INTELLIGENT SLOT	AS 400 / SNMP (Optional)		
SURGE PROTECTION & FILTERING			
SPIKE, SURGE & LIGHTNING PROTECTION	Yes		
OVERLOAD, SHORT CIRCUIT PROTECTION	Yes		
PHYSICAL			
OPERATING ENVIRONMENT	0-40°C, 20 - 95% Relative Humidity (Non-Condensing)		
NOISE LEVEL	< 50dBA @ 1 Meter		
DIMENSION (DxWxH)mm	410 x 438 x 88 (2U)	630 x 438 x 88 (2U)	
WEIGHT (KG)	14.1	23.3	27.5
SAFETY STANDARD			
PROTECTION	IP 20		
UPS SAFETY	IEC/ EN 62040-1		
EMC	IEC/ EN 62040-2		
UPS PERFORMANCE TEST	VFI-SS-111 in accordance with IEC / EN 62040-3		
UPS COMPLIANCE	CE		
WARRANTY			
UPS WARRANTY	3 Years Full Warranty Include Parts & Labour. 2 Years Warranty for Battery		

*Specification subjects to change without prior notice



Technical Specification:

MODEL		PowerBridge ONE+ RT 6K /6KS	PowerBridge ONE+ 10K / 10KS
CAPACITY (KVA/WATTS)		6KVA / 6000W	10KVA / 10,000W
INPUT			
NOMINAL VOLTAGE		208/220/230/240VAC	
VOLTAGE RANGE		110 - 300VAC (Based on load at 50%) 176VAC -300VAC (Based on load at 100%)	
FREQUENCY RANGE		46Hz ~ 54Hz or 56Hz ~ 64Hz	
PHASE		Single Phase with Ground	
INPUT POWER FACTOR		≥ 0.99 @ Nominal Voltage (100% Load)	
OUTPUT			
OUTPUT VOLTAGE		208/220/230/240VAC	
OUTPUT POWER FACTOR		1.0	
VOLTAGE REGULATION (Batt. Mode)		± 1%	
FREQUENCY RANGE (Synchronized Range)		46Hz ~ 54Hz or 56Hz ~ 64Hz	
FREQUENCY RANGE (Batt. Mode)		50Hz ± 0.1Hz or 60Hz ±0.1Hz	
CURRENT CREST RATIO		3 : 1	
TOTAL HARMONIC DISTORTION (THDv)		≤ 1% @ Linear Load ; ≤ 4% @ Non-Linear Load	
WAVEFORM		Pure Sinewave	
TRANSFER TIME (AC to DC)		Zero	
TRANSFER TIME (Inverter to Bypass)		Zero	
OUTPUT SOCKET		Terminal Block	
EFFICIENCY			
AC MODE		94%	
ECO MODE		98.5%	
BATTERY MODE		93%	
BATTERY			
STANDARD MODEL	BATTERY TYPE	12V 7AH	12V 9AH
	BATTERY NUMBERS	20	
	BACKUP TIME	20 - 30 minutes depending on load	
	RECHARGE TIME	9 Hours to 90% capacity	
	CHARGING CURRENT	1.0A - 4.0A (Adjustable)	
	CHARGING VOLTAGE	273 VDC ± 1%	
KS MODEL	BATTERY TYPE	Depending on the capacity of the external batteries	
	BATTERY NUMBERS	16 - 20 (Adjustable)	
	BACKUP TIME	Depending on the capacity of the external batteries	
	CHARGING CURRENT	2.0A - 12A (Adjustable)	
	CHARGING VOLTAGE	218.4VDC ± 1% / 273 VDC ± 1%	
STATUS INDICATION			
LCD DISPLAY		Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault	
AUDIBLE ALARM		Battery Mode, Low Battery, UPS Fault, Overload	
COMMUNICATION			
POWER MANAGEMENT SOFTWARE		Support Window Family, Linux & MAC	
INTERFACE		USB Port & Smart RS-232 Communication Port	
INTELLIGENT SLOT		AS400 / SNMP (Optional)	
EMERGENCY POWER OFF (EPO)		Yes	
SURGE PROTECTION & FILTERING			
SPIKE, SURGE & LIGHTNING PROTECTION		Yes	
OVERLOAD, SHORT CIRCUIT PROTECTION		Yes	
PHYSICAL			
OPERATING ENVIRONMENT		0-40°C, 20 - 90% Relative Humidity (Non-Condensing)	
NOISE LEVEL		< 55dB @ 1 Meter	
STANDARD MODEL	DIMENSION (DxWxH)mm	UPS : 600 x 438 x 88 (2U) Battery Pack: 600 x 438 x 133 (3U)	UPS : 600 x 438 x 88 (2U) Battery Pack: 600 x 438 x 133 (3U)
	WEIGHT (KG)	UPS : 17 Battery Pack : 57	UPS : 20 Battery Pack : 63
KS MODEL	DIMENSION (DxWxH)mm	UPS : 600 x 438 x 88 (2U)	
	WEIGHT (KG)	UPS : 17	
SAFETY STANDARD			
PROTECTION		IP 20	
UPS SAFETY		IEC/ EN 62040-1	
EMC		IEC/ EN 62040-2	
UPS PERFORMANCE TEST		VFI-SS-111 in accordance with IEC / EN 62040-3	
UPS COMPLIANCE		CE	
WARRANTY			
UPS WARRANTY		3 Years Full Warranty Include Parts & Labour. 2 Years Warranty for Battery	

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