COMPAQ +

RELIABLE POWER, SCALABLE PROTECTION

HMS 110R 1000VA
HMS 115R 1500VA
HMS 120R 2000VA
HMS 130R 3000VA
HMS 160RL 6000VA
HMS 1100RL 10000VA



- True online double-conversion UPS
- Output power factor 1.0
- Energy saving ECO mode
- Available frequency converter mode
- High charging power

The COMPAQ + Series delivers versatile and high-performance online double-conversion UPS protection for mission-critical equipment. Designed in a compact, convertible form factor, this series covers power capacities from 1 kVA to 10 kVA to support everything from IT networks to industrial systems. With features like a touch LCD interface, pure sinewave output, ECO mode for energy savings, and hot-swappable batteries, the COMPAQ + Series ensures continuous, clean power with intelligent energy management — when uptime matters most.

Features:

HMS-R 1KVA, 1.5KVA, 2KVA, 3KVA

- Programmable power management outlet
- Hot-swappable battery design
- ECO mode energy saving
- Integrated surge and overvoltage protection
- Very high charging current (adjustable)
- Low input THDi
- 50Hz/60Hz frequency converter mode
- Emergency power off (EPO) function

HMS-RL 6kVA, 10kVA

- Can be configured with high charging power
- Compact UPS design with external battery packs
- Generator compatible
- Emergency power off (EPO) function
- N+X redundancy in parallel operation
- Supporting Hot Standby function
- 50Hz/60Hz frequency converter mode
- User friendly HMI

Approach your local Harmer & Simmons representative for further support.

Contact details can be found on: **www.harmer-simmons.com**

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Technical Specifications

COMPAQ +
1kVA, 1.5kVA, 2kVA, 3kVA

MODEL	HMS 110R	HMS 115R	HMS 120R	HMS 130R
PHASE	1ph + N + PE			
CAPACITY	1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W
Article number	6000035479	6000035480	6000035481	6000035482
INPUT				
Nominal Voltage	200/208/220/230/240 VAC			
Voltage Range	160-300 VAC ± 5% @ 100% load 110-160 VAC ± 5% derated down to 50% load linearly			
Frequency Range	40 Hz ~ 70 Hz			
Power Factor	≧ 0.99 @ nominal voltage (100% load)			
Harmonic Distortion (THDi)	≦ 5% @ nominal input voltage			
OUTPUT				
Output Voltage	200*/208*/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz			
Frequency Range (Batt. Mode)	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≦ 2 % THD (Linear Load) ; ≦ 4 % THD (Non-linear Load)			
Transfer Time	Line mode to Battery mode: 0 ms; Line mode to Bypass mode: 4 ms			
EFFICIENCY				
AC Mode	≧ 89% @ full charged battery		≧ 91% @ full charged battery	
ECO Mode	≧ 96% @ full charged battery			
Battery Mode	≧ 88%		≧ 90%	
BATTERY				
Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah
Number of internal battery blocks	3	3	6	6
Typical Recharge Time	3 hours recover to 95% capacity for internal battery @ 2A charging current			
Charging Current	Default 2A, max. 12A adjustable			Default: 2A, max: 8A adjustable
Charging Voltage	41.1 VDC ± 1%	41.1 VDC ± 1%	82.1 VDC ±1%	82.1 VDC ±1%
COMPATIBLE External Battery Packs (EBPs)				
Model name	HMS 36BPR		HMS 72BPR	
Article number	6000035487		6000035488	
Battery content	2 x 3 x 12V/9Ah		2 x 6 x 12V/9Ah	
GENERAL DATA				
UPS Dimensions, DxWxH (mm)	410 x 438 x 88		630 x 438 x 88	
UPS Weight with integrated battery (kg)	14.1	15.5	23.3	27.5
EBP Dimension, DxWxH (mm)	410 x 438 x 88		630 x 438 x 88	
EBP Weight (kg)	21.5		41.2	
Humidity	20-90 % RH @ 0- 40°C (non-condensing)			
Audible noise	< 50dB @ 1 Meter		< 55dB @ 1 Meter	
Number of power outputs	1 programmable outlet group (with 4 x IEC C13) for non-critical loads and 1 outlet group (with 4 x IEC C13) for mission critical loads			1 programmable outlet group (4 x IEC C13) for non-critical loads and 1 outlet group (1 x IEC C19 + 4 x IEC C13) for mission critical loads
COMMUNICATION				
Interface	Smart RS232/USB: Supports Windows® Family, Linux and MAC			
Optional connectivity cards	HMS network card / HMS AS400 card			
Optional sensors	Temp & Humidity sensor			
Audible indications & alarms	Battery mode (beep every 5 seconds); Low Battery (beep every 2 sec); Overload (beep every second); Fault (beep continuously)			
OPTIONAL ACCESSORIES				
External Maintenance bypass (rack mounted)	MBS 1-3K rack			
Rack rail kit	Rack rail kit for 2U			
STANDARD CONFORMITY				
EMC/Safety	CE			

* Derate capacity to 80% when the output voltage is adjusted to 200VAC/208VAC.

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Technical Specifications

MODEL		HMS 160RL	HMS 1100RL
PHASE		1ph + N + PE	
CAPACITY		6000 VA / 6000 W**	10000 VA / 10000 W**
Article number		6000035485	6000035486
INPUT			
Nominal Voltage		208/220/230/240 VAC	
Voltage Range		176-300 VAC ± 5% @ 100% load 110-176 VAC ± 5% derated down to 50% load linearly	
Frequency Range		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz	
Power Factor		≧0.99 @ full load	
THDi		< 4% @100% Load, < 6% @50% Load	
OUTPUT			
Output Voltage		208*/220/230/240 VAC	
AC Voltage Regulation		± 1%	
Frequency Range (Synchronized Range)		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz	
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio		3:1 (max.)	
Harmonic Distortion		≦1% THD (Linear Load), ≦4% THD (Non-linear Load)	
Transfer Time		Line mode to Battery mode: 0 ms; Line mode to Bypass mode: 0 ms	
Overload	Line Mode	100%~110%: 10 min; 110%~130%: 1 min; >130% : 1sec	
	Battery Mode	100%~110%: 30 sec; 110%~130%: 10 sec; >130% : 1sec	
EFFICIENCY			
Line Mode		94%	
ECO Mode		98.5%	
Battery Mode		92%	
External Battery Packs (EBPs) compatible with HMS 160RL & HMS 1100RL models			
Model name / Battery content		HMS 192BPR / 1 x 16x12/9Ah	
Article number		6000035489	
Model name / Battery content		HMS 240BPR / 1 x 20x12/9Ah	
Article number		6000035537	
BATTERY			
Connected EBPs		Max 4 x EBP (16x12/9Ah)** or max 4 x EBP (20x12/9Ah)	
Charging Current (max.)		Default 1.0 A (adjustable 1A/2A/3A/4A)	
Charging Voltage		(13.65VDC x number of battery blocks) ± 1%	
GENERAL DATA			
Dimension, DxWxH (mm)		610x438x88	
Weight (kg)		15	17
Input/Output connections		Wired	
EBP: HMS 192BPR	Dimensions & Weight	715x438x88 mm; 50 kg	
EBP: HMS 240BPR	Dimensions & Weight	600x438x133 mm; 63 kg	
Operating Humidity		20-90 % RH @ 0 - 40°C (non-condensing)	
Audible Noise		< 58dB @ 1 Meter	
COMMUNICATION			
Interface		Smart RS-232/USB, Supports Windows® Family, Linux and MAC	
Optional connectivity cards		HMS network card / HMS AS400 relay card	
Optional sensors		Temp & Humidity sensor	
Information on LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions	
Audible indications & alarms		Battery mode (beep every 4 seconds); Low Battery (beep every second); Overload (beep twice every second); Fault (beep continuously)	
OPTIONAL ACCESSORIES			
External Maintenance bypass (rack mounted)		MBS 6-10K rack	
Rack rail kits		Rack rail kits for 2U and 3U	
STANDARD CONFORMITY			
EMC/Safety		CE	

* Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.
** Output PF with EBP 16x12V/9Ah is 0.8.