

MESTA ELECTRONICS, INC.

Mesta 3 Phase UPS Systems

UPS SPECIFICATIONS

- Input/Output Voltage** ▪ 208/120VAC 3Φ Nominal
- Output Voltage (on inverter)** ▪ 208/120 ± 1%
- Input Frequency** ▪ 60Hz ± 5Hz
- Frequency (AC line)** ▪ follows input
- Frequency (on inverter)** ▪ 60Hz ± 0.01Hz
- Frequency Slew Rate** ▪ 1-255 Hz/sec
(programmable via RS232 port)
- Crest Factor Capability** ▪ 3.0
- Output Power Factor Limitations** ▪ None
- Total Harmonic Distortion** ▪ approx. 1%
- Efficiency** >95% overall at full load
- Overload Rating**
 - 150% for 1 min
 - 300% .17 seconds

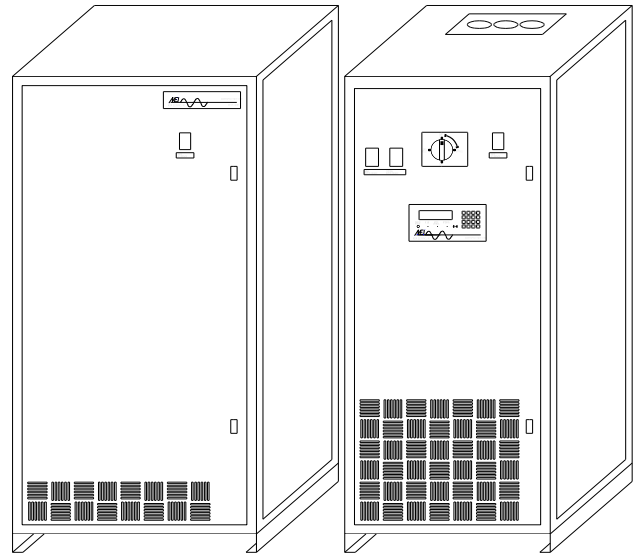
Audible Noise ▪ <60 dBA

Controls:

- Front panel keypad and LCD 40 character 8 line display
- Remote RS232, custom I/O and relay contacts
- Worldwide communications/control via modem

Features:

- Full system data readout, messages, warnings
- Programmable input voltage/freq. range/slew rate
- In service battery testing on demand

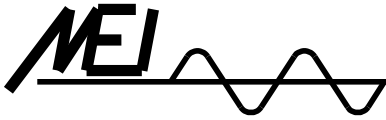


The following table shows the UPS internal battery breaker rating, the backup times provided at a load power factor of unity (1) or 0.70, the cabinet weight, and the external dimensions:

MODEL	KVA	KW	Peak KW	DC Breaker Rating Amps	Backup Time PF=1.0/0.70 min	Cabinet Weight lbs	Dimension inches		
							H	L	W
UPS10000/3-20-1	10	10	30	80	22/36	1,400	75	28	32
UPS15000/3-20-1	15	15	45	100	13/21	1,500	75	28	32
UPS20000/3-20-1	20	20	60	150	9/14	1,600	75	28	32
UPS25000/3-20-1	25	25	75	200	6/10	1,700	75	28	32
UPS25000/3-20-2	25	25	75	200	13/21	2,150	75	32	38
UPS30000/3-20-2	30	30	90	225	10/17	2,250	75	32	38
UPS50000/3-20-2	50	50	150	350	*	2,200	75	32	38

**This system does not have internal batteries. Backup time is dependant upon which external battery cabinet is purchased with the system*

The UPS cabinet also provides communication hardware connectors: the 25 pin RS232 for normal or current loop communications, a 15 pin custom I/O, and 4 relay contacts. LED's indicate current loop operation. The custom I/O controls the relay contacts, and there are two types of relays available: both are the dry contact type which handle signals at 120V/10 amp or 5V/1 amp. Normally the 120 volt contacts indicate **UPS Functioning, Batteries Discharging, Warnings** of any type, and **UPS in Maintenance Bypass** mode.



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EXTERNAL BATTERY CABINETS

Mesta Electronics offers two types of battery cabinets: those containing 38 amp-hour batteries and those containing 65 amp-hour batteries.

Dimensions: Mesta Electronics offers three sizes of battery cabinets, size 1, 2, and 3. The size 1 and 2 battery cabinets are identical in size to the size 1 and size 2 UPS cabinets, measuring 32" (size 1) or 38" (size 2) wide X 28" (size 1) or 32" (size 2) deep X 75" high. The size 3 battery cabinets measure 38" wide X 36" deep X 75" high. Size 1 and size 3 cabinets contain 38 amp-hour batteries while size 2 cabinets contain 65 amp-hr batteries.

Backup Times: The table below lists the total backup time when a battery cabinet is added to a UPS. The additional battery capacity adds to the internal capacity to yield much longer runtimes. All of the times indicated are in minutes and represent systems fully loaded. Actual times you receive with your system will vary depending upon your actual load.

Total System Backup Time per UPS with Battery Cabinet Model:

MODEL #	BC20-38		BC40-38		BC20-65		BC40-65		BC60-38		BC80-38		BC100-38	
	1.00	0.5	1.00	0.5	1.00	0.5	1.00	0.5	1.00	0.5	1.00	0.5	1.00	0.5
10000/3-20-1	56	139	95	238	83	208	159	360	139	330	187	420	238	540
15000/3-20-1	33	81	56	139	49	122	93	233	81	204	109	274	139	330
20000/3-20-1	22	56	38	95	33	83	63	159	56	139	75	187	95	238
25000/3-20-1	16	41	28	71	25	62	47	118	41	104	56	139	71	177
25000/3-20-2	25	62	37	94	34	84	58	144	51	129	66	166	82	206
30000/3-20-2	19	49	29	74	26	66	45	113	40	101	52	130	65	162
50000/3-20-2				18			13	34	11	28	17	41	22	56

Maximum Battery Current ■ The maximum amperage that each cabinet will allow is dependent upon the UPS to which it is attached. A cabinet, therefore, can utilize different sizes of breakers according to the cabinet's intended use. The breaker values are 80/100/150/200/225/350 amps when used with the 10/15/20/25/30/50 kVA UPS systems.

Terms and Conditions:

- Prices are F.O.B. factory.
- Payment - Net 30 days from date of shipment.
- Shipment - stock to 6 weeks.
- Net Prices based on quantities.

All Mesta units are listed by 