

Power+ M100 Three Phase Technical Specifications

Model	M100									
Capacity (kVA/kW)	10/8	20/16	30/24	40/32	50/40	60/48	70/56	80/64	90/72	100/80
Topology	Online Double Conversion Parallel Redundant with Central Static Switch									
Input										
Voltage	208V Three Phase, L1, L2, L3, N									
Current (rectifier input)	23.6	47.2	70.8	94.4	118.0	141.6	165.2	188.8	212.4	236
Current (bypass input)	27.8	55.6	83.4	111.2	139.0	166.8	194.6	222.4	250.2	278.0
Voltage Range	-25% to +15%									
Power Walk In	> 60 seconds									
Current Distortion (THDI)	5% at full load									
Input Power Factor	0.99									
Output										
Voltage	208V 3 Phase, L1, L2, L3, N									
Current	27.8	55.6	83.4	111.2	139.0	166.8	194.6	222.4	250.2	278.0
Frequency Tracking Range	60Hz +/-2Hz									
Static Regulation	+/-1%									
Regulation for Unbalanced Load	+/-1% for 100% Unbalanced load									
Dynamic Response to 100% Step Load	+/-2%									
Overload	110% for 10 min; 125% for 60 sec; 1000% for 1 cycle									
THD	Less than 2% for linear load									
Load Crest Factor (Max)	4:1									
Efficiency (Nominal)	AC/AC 94%, DC/AC 97%									
Static Switch										
Type	100kVA Static Switch with Auto Wrap-around Contactor									
Control Connections	EPO Connection (powered NC) and Load on Bypass (dry contacts NC)									
Input Connection	Dual Inputs (rectifier and bypass)									
General										
Ambient Temperature	14°F to 104°F (operating), -4° to 140°F (storage)									
10kVA/8kW Module Weight	22 lbs.									
UPS Dimensions (HxWxD)	64" x 23.4" x 38.6"									
Acoustic Noise (Full Load) @ 1.5M	51	54	55	57	58	59	59	60	61	61
Maximum Heat Dissipation (btuh)	1740	3480	5220	6960	8700	10440	12180	13920	15660	17400
UPS System Weight (lbs)	367	389	411	433	455	477	499	521	543	565
UPS Shipping Weight (lbs)	467	489	511	533	555	577	599	621	643	655
Power + Controller										
Display	4x40 Character LCD with Backlight									
Input Channels	4 Digital, 8 Analog									
Output Contacts	6 Dry Contacts									
System Operation without Controller	Continuous without disruption									
On Screen Parameters	Load Bar Graph, UPS Module Status, Static Switch Status, Battery Temperature Sensor (opt)									
Power Meter	Input and Output kW, kVA, and PF									
Alarms	Module Failure, AC Alarm, DC Alarm, On Bypass, Battery Test Fail, Overload, Over/Under Temp									
Operation without Controller	Continuous without disruption									
Log (events memory)	255 Events									
Standards										
EMC Emission	IEC62040-2; FCC part 15/8									
Safety	UL 1778; IEC62040-1-1									
Battery/Charger										
Battery Cabinet	5 minutes to 8 hours									
DC Link Voltage	384V (+192, -192)									
Charging Current at full load (amps)	4.5	9	13.5	18	22.5	27	31.5	36	40.5	45