

DPP+ / 3DPP+

Digital ProcessPower Uninterruptible Power Supply (UPS) Systems

DPP+ SINGLE PHASE: 5 – 30 KVA

3DPP+ THREE PHASE: 10 – 30 KVA

Experience the next generation of power protection. The DPP+ systems combine the features you know and trust with upgrades that help deliver a smaller footprint and smarter power protection.

The DPP+ and 3DPP+ Digital ProcessPower UPS systems are true on-line, double conversion systems that provide continuous, clean, regulated power for critical AC loads. Designed specifically for process control and industrial applications, the DPP+ systems utilize high power IGBT semiconductors and digital control for enhanced communications, monitoring and diagnostics capabilities.

DPP+ systems are equipped with fiber optic cables for control and communications, allowing for better isolation and faster more accurate signals between processors. The upgraded 7-inch LCD touchscreen display offers an improved viewing area that allows for quick health checks.

Maintaining your system has never been easier than with the DPP+ systems. They offer enhanced voltage isolation and improved health monitoring. A new internal light and test outlet have been developed to facilitate inspections and maintenance.

Features & Benefits:

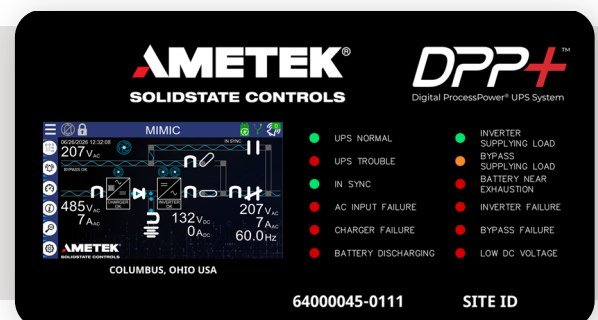
- ▲ **RMBS-Sidecar:** For a complete all-in-one package that supports safety during maintenance, add a Remote Manual Bypass Switch (RMBS) to your DPP+ system
- ▲ **Reduced Footprint:** Help preserve valuable space and gain more flexibility to install in tight spaces with the 24-inch-wide cabinet. An optional 14-inch wide RMBS sidecar can be attached to the cabinet.
- ▲ **Large User Interface:** Improved viewing area with auto-detection when an operator approaches the screen
- ▲ **Improved Health Monitoring:** On-board transformer vibration monitoring and internal temperature monitoring help determine proactive maintenance intervals
- ▲ **Enhanced Voltage Isolation:** Individual doors for top and bottom side maintenance or inspection

Standard LCD Panel Indicators:

- ✓ Equalize Time Remaining
- ✓ Inverter Status (OK/Fail)
- ✓ Charger Status (OK/Fail)
- ✓ Synchronism Status (In/Out of Sync)
- ✓ Float/Equalize Status

AMETEK
SOLIDSTATE CONTROLS

REV-B



PROVIDING CONTINUITY OF ELECTRICAL POWER

0.8 Load Power Factor at Rated kVA 120 VDC (60 Lead Acid Battery Cells)

Model Number	Rated Output Power		Efficiency		AC Input/Freq. AC Amps per Phase ¹			Max DC Current @ 1.75 VPC	AC Output Amps ¹			UPS Cabinet Style	Weight ²		Heat Loss (BTU/hr)
	kVA	kW	AC-DC	DC-AC	480/60	208/60	380/50		120	220	240		lb	kg	
DPP+005- ³	5	4	92%	87%	11	25	14	44	42	23	21	GTDIY	735	324	3403
DPP+007- ³	7.5	6	92%	87%	16	37	20	66	63	34	31	GTDIY	900	397	5105
DPP+010- ³	10	8	92%	87%	21	48	26	88	83	46	42	GTDIY	1070	472	6807
DPP+015- ³	15	12	92%	87%	31	70	39	131	125	68	63	GTDIY	1270	560	10210
DPP+020- ³	20	16	93%	87%	40	92	50	175	167	91	83	GTDIY	1470	648	12881
DPP+030- ³	30	24	93%	87%	59	137	75	263	250	136	125	GTDIY	1920	847	19321

0.8 Load Power Factor at Rated kVA 240 VDC (120 Lead Acid Battery Cells)

Model Number	Rated Output Power		Efficiency		AC Input/Freq. AC Amps per Phase ¹			Max DC Current @ 1.75 VPC	AC Output Amps ²			UPS Cabinet Style	Weight ²		Heat Loss (BTU/hr)
	kVA	kW	AC-DC	DC-AC	480/60	208/60	380/50		120	220	240		lb	kg	
DPP+010- ³	10	8	93%	88%	20	47	25	45	83	46	42	GTDIY	1080	476	6195
DPP+015- ³	15	12	93%	88%	30	69	38	65	125	68	63	GTDIY	1280	564	9291
DPP+020- ³	20	16	94%	89%	38	91	49	90	167	91	83	GTDIY	1480	653	11593
DPP+030- ³	30	24	94%	89%	58	136	74	128	250	136	125	GTDIY	1930	851	17196

1.0 Load Power Factor at Rated kVA 120 VDC (60 Lead Acid Battery Cells)

Model Number	Rated Output Power		Efficiency		AC Input/Freq. AC Amps per Phase ¹			Max DC Current @ 1.75 VPC	AC Output Amps ¹			UPS Cabinet Style	Weight ²		Heat Loss (BTU/hr)
	kVA	kW	AC-DC	DC-AC	480/60	208/60	380/50		120	220	240		lb	kg	
DPP+005- ³	5	5	92%	87%	15	35	20	55	42	23	21	GTDIY	910	401	4254
DPP+007- ³	7.5	7.5	92%	87%	20	47	26	82	63	34	31	GTDIY	1085	478	6382
DPP+010- ³	10	10	92%	87%	30	70	39	109	83	45	42	GTDIY	1270	560	8509
DPP+015- ³	15	15	92%	87%	40	93	51	164	125	68	63	GTDIY	1470	648	12075
DPP+020- ³	20	20	93%	87%	60	139	76	219	167	91	83	GTDIY	1920	847	16101

1.0 Load Power Factor at Rated kVA 240 VDC (120 Lead Acid Battery Cells)

Model Number	Rated Output Power		Efficiency		AC Input/Freq. AC Amps per Phase ¹			Max DC Current @ 1.75 VPC	AC Output Amps ¹			UPS Cabinet Style	Weight ²		Heat Loss (BTU/hr)
	kVA	kW	AC-DC	DC-AC	480/60	208/60	380/50		120	220	240		lb	kg	
DPP+010- ³	10	8	93%	88%	26	60	34	55	83	45	42	GTDIY	1335	589	7755
DPP+015- ³	15	12	93%	88%	39	90	50	83	125	68	63	GTDIY	1525	672	11625
DPP+020- ³	20	16	94%	89%	53	121	69	112	165	90	84	GTDIY	1980	873	15102

Model Coding

"DD"	"EE"	"FF"	"GG"	"HH"	"I"	"J"
AC Input Volts (code)	DC Bus Volts (code)	AC Output Volts (code)	Freq (code)	Output Power Factor (code)	Charger Design (code)	Config Code (code)
208 – (20)	120 – (12)	120 – (12)	60 – (60)	0.8 – (K)	6-Pulse – (S)	Float – (F)
480 – (48)	240 – (24)	220 – (22)	50 – (50)	1.0 – (W)	12-Pulse – (T)	Parallel (P)
380 – (38)		240 – (24)				
400 – (40)		400 – (40)				
600 – (60)		480 – (48)				

¹ Circuit Breakers are sized at a minimum of 125% of rated current.

² Unit weights correspond to a 60 Hz unit. Contact us for 50 Hz unit weight.

³ A complete model number includes the AC input voltage, DC bus (link) voltage, AC output voltage, system frequency, output power factor, and UPS configuration. To "build" a model number, use the "code" in the matrix shown above, following the example format: DPP+010-DD-EE-FF-GG-H-I-J; where DD=AC Input Voltage; EE=DC bus voltage; FF=AC Output Voltage; GG=System Frequency; H=Output Power Factor ('K' for 0.8; 'W' for 1.0); I=6(S) or 12(T) Pulse Charger design; J=UPS configuration ('F' for Float, 'P' for Parallel Redundant).

For Example: A 20 kVA with 480 VAC input; 120 VDC bus voltage; 120 VAC output; 60 Hz; 0.8 output power factor; 6 pulse charger; Float system would have the following model number: DPP+020-48-12-12-60-K-S-F. For custom systems and for units which do not have a configurable model number, insert a "C" in the model number as follows: DPP+020C

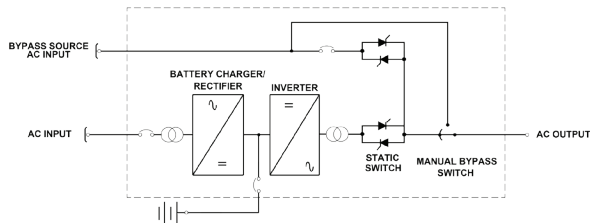
Sizes are subject to change. Top mounted cooling fans require 0.5 in (13 mm) additional height. Certain optional features and/or combinations may require larger cabinets.

Cabinet Dimensions

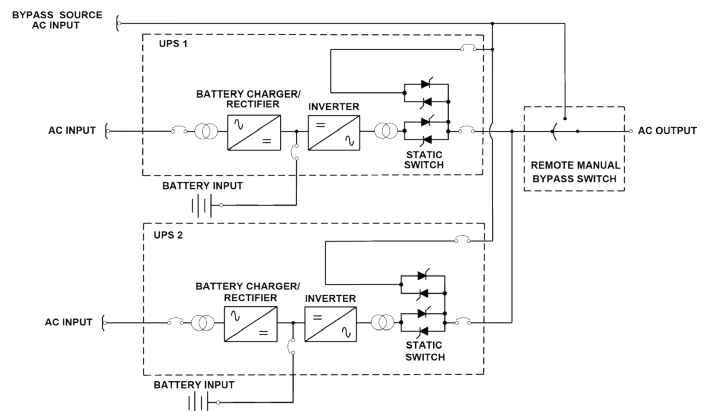
Style	H x W x D (inches)	H x W x D (mm)
GTDIY ⁴	79 x 24 x 36	2007 x 610 x 914

⁴ Sidecar RMBS cabinet adds 14 inches (356 mm) of width to the standard 24 inch cabinet

STAND-ALONE UPS CONFIGURATION



PARALLEL REDUNDANT CONFIGURATION





sci.sales@AMETEK.com | **solidstatecontrolsinc.com**

0.8 Load Power Factor at Rated kVA 120VDC (60 Lead Acid Battery Cells)

Model Number	Rated Output Power		Efficiency		3PH AC Input/Freq AC Amps Per Phase ¹				Max DC Current	3PH AC Output Amps Per Phase ¹			Cabinet Style	Weight ²		Heat Loss (BTU/hr)
	kVA	kW	AC-DC	DC-AC	208/60	480/60	600/60	380/50	@ 1.75 VPC	208	480	380		lb	kg	
3DPP+010-3	10	8	92%	87%	48	21	17	26	88	28	12	15	GTDIY	1070	485	6807
3DPP+015-3	15	12	92%	87%	70	31	24	39	131	42	18	23	GTDIY	1270	576	10210
3DPP+020-3	20	16	93%	87%	92	40	32	50	175	56	24	30	GTDIY	1470	667	12880
3DPP+030-3	30	24	93%	87%	137	59	47	75	263	83	36	46	GTDIY	1920	871	19321

0.8 Load Power Factor at Rated kVA 240VDC (120 Lead Acid Battery Cells)

Model Number	Rated Output Power		Efficiency		3PH AC Input/Freq AC Amps Per Phase ¹				Max DC Current	3PH AC Output Amps Per Phase ¹			Cabinet Style	Weight ²		Heat Loss (BTU/hr)
	kVA	kW	AC-DC	DC-AC	208/60	480/60	600/60	380/50	@ 1.75 VPC	208	480	380		lb	kg	
3DPP+010-3	10	8	92%	87%	45	20	25	25	43	28	12	15	GTDIY	1080	490	6194
3DPP+015-3	15	12	93%	88%	67	29	23	36.5	64	41.5	18	23	GTDIY	1280	581	9291
3DPP+020-3	20	16	99%	88%	90	40	50	50	86	56	24	31	GTDIY	1480	671	11721
3DPP+030-3	30	24	93%	89%	134	58	46	73	128	83	36	46	GTDIY	1930	875	17046

1.0 Load Power Factor at Rated kVA 120VDC (60 Lead Acid Battery Cells)

Model Number	Rated Output Power		Efficiency		3PH AC Input/Freq AC Amps Per Phase ¹				Max DC Current	3PH AC Output Amps Per Phase ¹			UPS Cabinet Style	Weight ²		Heat Loss (BTU/hr)
	kVA	kW	AC-DC	DC-AC	208/60	480/60	600/60	380/50	@ 1.75 VPC	208	480	380		lb	kg	
3DPP+010-3	10	10	92%	87%	70	31	24	39	110	28	12	15	GTDIY	1270	576	8509
3DPP+015-3	15	15	92%	87%	92	40	32	50	164	42	18	23	GTDIY	1470	667	12075
3DPP+020-3	20	20	93%	87%	137	59	47	75	219	56	24	30	GTDIY	1920	871	16101

1.0 Load Power Factor at Rated kVA 240VDC (120 Lead Acid Battery Cells)

Model Number	Rated Output Power		Efficiency		3PH AC Input/Freq AC Amps Per Phase ¹				Max DC Current	3PH AC Output Amps Per Phase ¹			UPS Cabinet Style	Weight ²		Heat Loss (BTU/hr)
	kVA	kW	AC-DC	DC-AC	208/60	480/60	600/60	380/50	@ 1.75 VPC	208	480	380		lb	kg	
3DPP+010-3	10	10	92%	89%	59	26	21	33	54	28	12	16	GTDIY	1280	581	6807
3DPP+015-3	15	15	93%	89%	89	38	31	49	81	42	18	23	GTDIY	1480	671	9660
3DPP+020-3	20	20	93%	89%	119	53	43	67	109	57	24	33	GTDIY	1935	878	12881

Model Coding

"DD"	"EE"	"FF"	"GG"	"HH"	"I"	"J"
AC Input Volts (code)	DC Bus Volts (code)	AC Output Volts (code)	Freq (code)	Output Power Factor (code)	Charger Design (code)	Config Code (code)
208 – (20)	120 – (12)	120/208 – (20)	60 – (60)	0.8 – (K)	6-Pulse – (S)	Float – (F)
480 – (48)	240 – (24)	277/480 – (48)	50 – (50)	1.0 – (W)	12-Pulse – (T)	Parallel (P)
600 – (60)		220/380 – (38)				
400 – (40)		480/277 – (48)				
380 – (38)		400/230 – (40)				

¹ Circuit Breakers are sized at a minimum of 125% of rated current.

² Unit weights correspond to a 60 Hz unit. Contact us for 50 Hz unit weight.

³ A complete model number includes the AC input voltage, DC bus (link) voltage, AC output voltage, system frequency, output power factor, and UPS configuration. To "build" a model number, use the "code" in the matrix shown above, following the example format: 3DPP+010-DD-EE-FF-GG-H-I-J; where DD=AC Input Voltage; EE=DC bus voltage; FF=AC Output Voltage; GG=System Frequency; H=Output Power Factor (K for 0.8; W for 1.0); I=6(S) or 12(T) Pulse Charger design; J=UPS configuration (F for Float, P for Parallel Redundant).

For Example: A 20 kVA with 480 VAC input; 120 VDC bus voltage; 120/208 VAC output; 60 Hz; 0.8 output power factor; 6 pulse charger; Float system would have the following model number: 3DPP+020-48-12-20-60-K-S-F. For custom systems and for units which do not have a configurable model number, insert a 'C' in the model number as follows: 3DPP+020C.

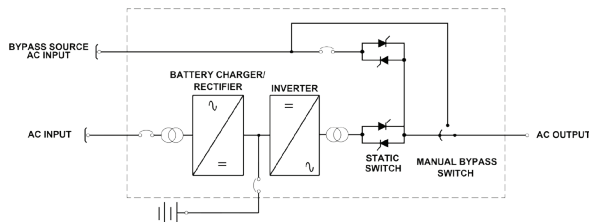
Sizes are subject to change. Top mounted cooling fans require 0.5 in (13 mm) additional height. Certain optional features and/or combinations may require larger cabinets.

Cabinet Dimensions

Style	H x W x D (inches)	H x W x D (mm)
GTDIY*	79 x 24 x 36	2007 x 610 x 914

* Sidecar RMBS cabinet adds 14 inches (356 mm) of width to the standard 24 inch cabinet

STAND-ALONE UPS CONFIGURATION



PARALLEL REDUNDANT CONFIGURATION

