# DC technology

PL Series ...digital dc drives



up to 2000+HP





# Standard Features

- · Total digital control
- · Basic peer-to-peer link
- 40 character backlit display
- · Friendly, easy menu structure
- · Modern, compact packaging · Extensive, flexible, plug-in I/O
- · RS232 serial port
- · Easy configuration saving & cloning
- Built-in automatic field controller
- Built in programmable control functions for PID, winders, orientation, etc.
- · Tach, encoder & arm volts feedback
- · Easy reliable autotune

Size 4 & 5 drives include an embedded **speedy** Automation Controller for safe, doors closed, start up & operation with:

Up to 900HP

- · Easy USB port interface
- Peer-to-peer Ethernet communications
- drive.web programmable control
- ModbusTCP over Ethernet
- Easy, safe, savvyPanel "Quick Start"
- see pages 20 & 21 for dw221 details -

# Optional:

- ModbusRTU RS485 serial port
- · Devicenet. Profibus DP. fieldbus







## powerDRIV€ Packages

PL/X DC drives up to 1200 horsepower are available in compact powerDRIVE packages complete with:

- · Main contactor
- · High speed 3-phase line fuses
- · High speed armature fuse
- High speed control/field fuses
- Line filter (100HP & up)
- Optional motor blower starter (100HP & up)



# **Key Features**

## **Analog Inputs & Outputs**

8 analog inputs & 4 analog outputs (12 bits) All outputs short circuit protected All inputs over voltage protected up to +50v Inputs configurable 5 to 30v Input volts programmable up to +/-30v

## **Digital Inputs & Outputs**

17 digital inputs & 7 digital outputs
Digital I/O short circuit protected
Digital inputs over volts protected to +50v
(with settable switching levels)
Digital outputs over volts protected to +50v

#### Speed Feedback - Standard

Analog tach
Encoder
Armature voltage
Encoder + armature volts
Encoder + analog tach

#### **Field Configurations**

Fixed Current
Fixed voltage
Automatic field weakening
Delayed field quench
Standby field setting
Field economy

## **Diagnostic Monitoring**

Output power Kw

AC supply volts

Scope terminal monitors selectable values
All analog input voltages
All digital input states
All analog output voltages
All digital output states
Tach volts
Motor arm volts & amps
Field current

## **User Configurable Software Functions**

PID blocks, Parameter profiler, Winder reel diameter calculator, Winder taper tension calculator, Winder torque/inertia/friction compensator, Preset speed function, Two summers, Software "motorized pot", Interval timer, Current profiling, Zero speed with shaft position lock, Jog / crawl functions, Two filters, Dual motor swap, Latch, Sample & hold function, Auto self-tune current loop, Linear and S-ramps, Slack take-up, Batch Counter, Draw control.

## **Engineered Configuration Packages**

Pre-configured generic apps are available for Open & Closed Loop Winders, Position Controls, Coordinated Line Drives, Indexing, registration and others.

#### Safe, "Doors Closed" Start Up & Opertation

The optional dw221 Automation Controller is embedded as standard in size 4 & 5 for easy system wide access to configure, connect & control.

#### **Protection**

Interline device networks
High energy MOV's
Instantaneous overcurrent
Overcurrent ( inverse time)
Field fail and overcurrent
Motor over temperature
SCR (thyristor) over temp
Main power phase loss
Armature over volts
Over speed protection
Speed feedback mismatch
Stall protection
Standstill logic
SCR (Thyristor) trigger failure
Digital output short circuit

#### **Communications Ports**

drive.web peer-to-peer Ethernet ModbusTCP/IP Ethernet USB port for easy network wide set up Serial port (RS232)

#### **Optional Communications**

Ethernet: EIP (PCCC) ModbusRTU Profibus DP



Easily add a

savvyPanel touch
screen HMI with
secure WiFi interface

- Simple, intuitive configuration techniques with clear display of information
- · No pots or switches to set
- · Accurate display of voltages and currents
- Positive displacement pushbuttons for tactile feel
- High power processor and large memory will ensure ease of product enhancement in the future
- · 2-button reset gets users back to OEM set up
- Powerful savvy graphical configuration, diagnostics & system design tools



Bright, 40-character display with clear parameter descriptions

Scroll Up

Exit menu level

Reliable, easy plug-in control terminals

The powerful **savvy** configuration tools are used for the PL Series DC drives, AC drives, **drive.web** programmable controllers, **savvyPanel** operator stations & complete systems.

# DC t∈chnology



↑ 75 HP, PLX50/123

powerPLX50/123 
With fuses, contactor & power components (shown hinged open







## powerPL265/630 →

With fuses, contactor & power components (shown with optional motor blower starter)



# **Models & Ratings**

for easy access)

4-Quadrant, Regenerative Drives

i diamini, itagaila zitta									
	HP @ 500V arm 460VAC	HP @ 240V arm 230VAC	•	Field Amps DC ower(basic)	<del>рошеrDRIVE</del> Model	Dimensions W x H x D (weight) inches (LBS)	basicDRIVE Model	Dimensions W x H x D (weight) inches (LBS)	Line Reactor Model
	20	10	36	5(8)	<i>рош∈г</i> РLX15/36	8.5 x 11.4 x 11.7 (26)	PLX15/36	8.5 x 11.4 x 6.9 (16)	LM37
	30	10	51	5(8)	<b>рош∈г</b> РLX20/51	8.5 x 11.4 x 11.7 (26)	PLX20/51	8.5 x 11.4 x 6.9 (16)	LM52
	60	25	99	5(8)	<b>рош∈г</b> РLX40/99	8.5 x 11.4 x 11.7 (30)	PLX40/99	8.5 x 11.4 x 6.9 (17)	LM120
	75	35	123	5(8)	<b>рошег</b> PLX50/123	8.5 x 11.4 x 11.7 (30)	PLX50/123	8.5 x 11.4 x 6.9 (17)	LM120
	100	50	164	10(16)	<i>рошег</i> PLX65/164	16 x 33 x 9.7 (80)	PLX65/164	8.5 x 16.2 x 8.6 (27)	LM150
	125	60	205	10(16)	<b>рош∈г</b> РLX85/205	16 x 33 x 9.7 (80)	PLX85/205	8.5 x 16.2 x 8.6 (27)	LM195
	150	75	270	10(16)	<b>рошег</b> PLX115/270	16 x 33 x 9.7 (82)	PLX115/270	8.5 x 16.2 x 8.6 (28)	LM240
	200	100	330	10(16)	<b>рошєг</b> РLX145/330	16 x 33 x 9.7 (89)	PLX145/330	8.5 x 16.2 x 8.6 (28)	LM300
	250	125	405	20(32)	<b>рошєг</b> РLX185/405	16 x 43.5 x 14.4(143)	PLX185/430	8.5 x 19.9 x 14.4 (43)	LM375
	300	150	480	20(32)	рошегРLX225/480	16 x 43.5 x 14.4 (145)	PLX225/530	8.5 x 19.9 x 14.4 (45)	LM480

## 2-Quadrant, Non-Reversing Drives

2-Quadrant, Non-Reversing Drives									
	HP @	HP @	Armature	Field	рошеrDRIVE	Dimensions	basic <b>DRIVE</b>	Dimensions	Line
	500V arm	240V arm	Amps DC	Amps DC	Model	W x H x D (weight)	Model	W x H x D (weight)	Reactor
	460VAC	230VAC	@ 40°C p	ower(basic)		inches (LBS)		inches (LBS)	Model
			· .	` ′		` ,		` ,	
	20	10	36	5(8)	<b>рош∈г</b> РL15/36	8.5 x 11.4 x 11.7 (26)	PL15/36	8.5 x 11.4 x 6.9 (16)	LM37
	30	10	51	5(8)	<b>рошєг</b> PL20/51	8.5 x 11.4 x 11.7 (26)	PL20/51	8.5 x 11.4 x 6.9 (16)	LM52
	60	25	99	5(8)	<b>рошег</b> PL40/99	8.5 x 11.4 x 11.7 (30)	PL40/99	8.5 x 11.4 x 6.9 (17)	LM120
	75	35	123	5(8)	рошегPL50/123	8.5 x 11.4 x 11.7 (30)	PL50/123	8.5 x 11.4 x 6.9 (17)	LM120
				. ,	•	` '		` '	
	100	50	164	10(16)	<i>рошег</i> РL65/164	16 x 33 x 9.7 (80)	PL65/164	8.5 x 16.2 x 8.6 (27)	LM150
	125	60	205	10(16)	рошегPL85/205	16 x 33 x 9.7 (80)	PL85/205	8.5 x 16.2 x 8.6 (27)	LM195
	150	75	270	10(16)	<b>рошег</b> PL115/270	16 x 33 x 9.7 (82)	PL115/270	8.5 x 16.2 x 8.6 (28)	LM240
	200	100	330	10(16)	<b>рош∈г</b> РL145/330	16 x 33 x 9.7 (89)	PL145/330	8.5 x 16.2 x 8.6 (28)	LM300
				` ′		, ,		, ,	
	250	125	405	20(32)	<b>рошєг</b> РL185/405	16 x 43.5 x 14.4 (143)	PL185/430	8.5 x 19.9 x 14.4 (43)	LM375
	300	150	480	20(32)	<i>рошег</i> PL225/480	16 x 43.5 x 14.4 (143)	PL225/530	8.5 x 19.9 x 14.4 (45)	LM480
	400	200	630	` '	<b>рошег</b> PL265/630	16 x 43.5 x 14.4 (154)	PL265/630	8.5 x 19.9 x 14.4 (45)	LM600
				` '		( ' /		\ '	

basicDRIVES must be installed with new contactor and the correct high speed SCR fuses to maintain the warranty drive.web options see pages 24 - 25

Computer RS232 Communications Cable - Drive to DB9 - part number LA102595, included with every drive For details of Drive Isolation Transformers, Line Reactors and Line Filters, please call +410-604-3400

# **PL-Series Drives to 2000HP**

# **Models & Ratings**

DC drives 400 HP to 2000 HP are normally available as **basicDRIVES** but can be supplied with **powerKITS** including:

- · High speed fuses for line, armature & field
- Main DC contactor
- Line filter
- · Flexible bus bar kits

(**basicDRIVES** must be installed with new power components to maintain the warranty)

Drives are available for either 6-pulse or 12-pulse, 460, 600 or 690 VAC configurations - please call for further information.

2250 @35°C

1940



DC Dri	ves - 500 V	/DC Armatu	re, 480VAC Su	nnly		
HP @	ARMATURE	FIELD	basicDRIVE	basicDRIVE	DIMENSIONS	OVERLOAD
	AMPS DC	AMPS DC	4-QUAD REGEN		W x H x D (weight)	RATING
	@ 40°C	Basic(Optional)	REVERSING	NON-REVERSING	INCHES (LBS) TOP CABLE ENTRY	
400	650	32 (50)	PLX275/650	PL275/650	10 x 30 x 13.8 (120)	150%, 25 SECS
450	750	32 (50)	PLX315/750	PL315/750	10 x 30 x 13.8 (120)	150%, 25 SECS
500	850	32 (50)	PLX360/850	PL360/850	10 x 30 x 13.8 (120)	150%, 25 SECS
575	950	32 (50)	PLX400/950	PL400/950	10 x 30 x 13.8 (120)	150%, 25 SECS
650	1050	32 (50)	PLX440/1050	PL440/1050	10 x 30 x 13.8 (120)	100%, CONT
750	1250	64	PLX520/1250	PL520/1250	20 x 30 x 13.8 (285)	150%, 25 SECS
895	1450	64	PLX600/1450	PL600/1450	20 x 30 x 13.8 (285)	150%, 25 SECS
1000	1650	64	PLX700/1650	PL700/1650	20 x 30 x 13.8 (285)	150%, 25 SECS
1140	1850	64	PLX800/1850	PL800/1850	20 x 30 x 13.8 (285)	150%, 25 SECS
1260	2050 @35°C	64	PLX900/2050	PL900/2050	20 x 30 x 13.8 (285)	150%, 25 SECS
1380	2250 @35°C	64	PLX980/2250	PL980/2250	20 x 30 x 13.8 (285)	100%, CONT
DC Dri	voc 600 V	/DC Armatu	re, 600VAC Su	nnly		
480	650 V	32 (50)	PLX275MV/650	PL275MV/650	10 x 30 x 13.8 (120)	150%, 25 SECS
550	750	32 (50)	PLX275WV/650 PLX315MV/750	PL275WV/650 PL315MV/750	10 x 30 x 13.8 (120)	150%, 25 SECS
630	850	32 (50)	PLX360MV/850	PL360MV/850	10 x 30 x 13.8 (120)	150%, 25 SECS
700	950	32 (50)	PLX400MV/950	PL400MV/950	10 x 30 x 13.8 (120)	150%, 25 SECS
775	1050	32 (50)	PLX440/MV1050	PL440MV/1050	10 x 30 x 13.8 (120)	100%, CONT
925	1250	64	PLX520MV/1250	PL520MV/1250	20 x 30 x 13.8 (285)	150%, 25 SECS
1075	1450	64	PLX600MV/1450	PL600MV/1450	20 x 30 x 13.8 (285)	150%, 25 SECS
1220	1650	64	PLX700MV/1650	PL700MV/1650	20 x 30 x 13,8 (285)	150%, 25 SECS
1370	1850	64	PLX800MV/1850	PL800MV/1850	20 x 30 x 13.8 (285)	150%, 25 SECS
1510	2050 @35°C	64	PLX900MV/2050	PL900MV/2050	20 x 30 x 13.8 (285)	150%, 25 SECS
1660	2250 @35°C	64	PLX980MV/2250	PL980MV/2250	20 x 30 x 13.8 (285)	100%, CONT
DC Dri	ves - 700 V	DC Armatu	re, 690VAC Su	pply		
550	650	32 (50)	PLX275HV/650	PL275HV/650	10 x 30 x 13.8 (120)	150%, 25 SECS
650	750	32 (50)	PLX315HV/750	PL315HV/750	10 x 30 x 13.8 (120)	150%, 25 SECS
735	850	32 (50)	PLX360HV/850	PL360HV/850	10 x 30 x 13.8 (120)	150%, 25 SECS
820	950	32 (50)	PLX400HV/950	PL400HV/950	10 x 30 x 13.8 (120)	150%, 25 SECS
900	1050	32 (50)	PLX440HV/1050	PL440HV/1050	10 x 30 x 13.8 (120)	100%, CONT
1080	1250	64	PLX520HV/1250	PL520HV/1250	20 x 30 x 13.8 (285)	150%, 25 SECS
1250	1450	64	PLX600HV/1450	PL600HV/1450	20 x 30 x 13.8 (285)	150%, 25 SECS
1420	1650	64	PLX700HV/1650	PL700HV/1650	20 x 30 x 13.8 (285)	150%, 25 SECS
1600	1850	64	PLX800HV/1850	PL800HV/1850	20 x 30 x 13.8 (285)	150%, 25 SECS
1770	2050 @35°C	64	PLX900HV/2050	PL900HV/2050	20 x 30 x 13.8 (285)	150%, 25 SECS

20 x 30 x 13.8 (285)

100%, CONT

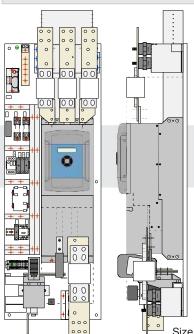
PL980HV/2250

PLX980HV/2250

# DC technology

# DC powerDRIVES - 500 VDC Armature, 480 VAC Supply & powerKITS

REGENERATIVE, REVERSING, 4-QUADRANT DRIVES           400         650         32 (50)         4         powerPLX275/650         CON-800V700A         FPX650         FANSUPPLY4           450         750         32 (50)         4         powerPLX315/750         CON-800V850A         FPX750         FANSUPPLY4           500         850         32 (50)         4         powerPLX360/850         CON-800V850A         FPX850         FANSUPPLY4           575         950         32 (50)         4         powerPLX400/950         CON-800V1000A         FPX950         FANSUPPLY4           600         1000         64         5         powerPLX520/11000         CON-800V1200A         FPX1000         FANSUPPLY5           700         1150         64         5         powerPLX520/1150         CON-800V1200A         FPX1150         FANSUPPLY5           800         1350         64         5         powerPLX600/1350         CON-800V1750A         FPX1350         FANSUPPLY5           1000         1650         64         5         powerPLX700/1650         CON-800V1750A         FPX1750         FANSUPPLY5           1200         1950         64         5         powerPLX800/1750         CON-800V2000A         FPX1750	r
450 750 32 (50) 4 powerPLX315/750 CON-800V850A FPX750 FANSUPPLY4 500 850 32 (50) 4 powerPLX360/850 CON-800V850A FPX850 FANSUPPLY4 575 950 32 (50) 4 powerPLX400/950 CON-800V1000A FPX950 FANSUPPLY4 600 1000 64 5 powerPLX520/1000 CON-800V1200A FPX1000 FANSUPPLY5 700 1150 64 5 powerPLX520/1150 CON-800V1200A FPX1150 FANSUPPLY5 800 1350 64 5 powerPLX600/1350 CON-800V1750A FPX1350 FANSUPPLY5 1000 1650 64 5 powerPLX700/1650 CON-800V1750A FPX1650 FANSUPPLY5 1100 1750 64 5 powerPLX700/1650 CON-800V1750A FPX1650 FANSUPPLY5 1200 1950 64 5 powerPLX800/1750 CON-800V2000A FPX1750 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5 FANSUPPLY5 1200 650 32 (50) 4 powerPLX900/1950 CON-800V700A FP650 FANSUPPLY4	
500         850         32 (50)         4         powerPLX360/850         CON-800V850A         FPX850         FANSUPPLY4           575         950         32 (50)         4         powerPLX400/950         CON-800V1000A         FPX950         FANSUPPLY4           600         1000         64         5         powerPLX520/1000         CON-800V1200A         FPX1000         FANSUPPLY5           700         1150         64         5         powerPLX520/1150         CON-800V1200A         FPX1150         FANSUPPLY5           800         1350         64         5         powerPLX600/1350         CON-800V1750A         FPX1350         FANSUPPLY5           1000         1650         64         5         powerPLX700/1650         CON-800V1750A         FPX1650         FANSUPPLY5           1100         1750         64         5         powerPLX800/1750         CON-800V2000A         FPX1750         FANSUPPLY5           1200         1950         64         5         powerPLX900/1950         CON-800V2000A         FPX1950         FANSUPPLY5           NON-REGENERATIVE, 2-QUADRANT DRIVES           400         650         32 (50)         4         powerPL275/650         CON-800V700A         FP650         FANSUPPLY4	
575         950         32 (50)         4         powerPLX400/950         CON-800V1000A         FPX950         FANSUPPLY4           600         1000         64         5         powerPLX520/1000         CON-800V1200A         FPX1000         FANSUPPLY5           700         1150         64         5         powerPLX520/1150         CON-800V1200A         FPX1150         FANSUPPLY5           800         1350         64         5         powerPLX600/1350         CON-800V1750A         FPX1350         FANSUPPLY5           1000         1650         64         5         powerPLX700/1650         CON-800V1750A         FPX1650         FANSUPPLY5           1100         1750         64         5         powerPLX800/1750         CON-800V2000A         FPX1750         FANSUPPLY5           1200         1950         64         5         powerPLX900/1950         CON-800V2000A         FPX1950         FANSUPPLY5           NON-REGENERATIVE, 2-QUADRANT DRIVES           400         650         32 (50)         4         powerPL275/650         CON-800V700A         FP650         FANSUPPLY4	
600 1000 64 5 powerPLX520/1000 CON-800V1200A FPX1000 FANSUPPLY5 700 1150 64 5 powerPLX520/1150 CON-800V1200A FPX1150 FANSUPPLY5 800 1350 64 5 powerPLX600/1350 CON-800V1750A FPX1350 FANSUPPLY5 1000 1650 64 5 powerPLX700/1650 CON-800V1750A FPX1650 FANSUPPLY5 1100 1750 64 5 powerPLX800/1750 CON-800V2000A FPX1750 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5  NON-REGENERATIVE, 2-QUADRANT DRIVES 400 650 32 (50) 4 powerPL275/650 CON-800V700A FP650 FANSUPPLY4	
700 1150 64 5 powerPLX520/1150 CON-800V1200A FPX1150 FANSUPPLY5 800 1350 64 5 powerPLX600/1350 CON-800V1750A FPX1350 FANSUPPLY5 1000 1650 64 5 powerPLX700/1650 CON-800V1750A FPX1650 FANSUPPLY5 1100 1750 64 5 powerPLX800/1750 CON-800V2000A FPX1750 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5  NON-REGENERATIVE, 2-QUADRANT DRIVES 400 650 32 (50) 4 powerPL275/650 CON-800V700A FP650 FANSUPPLY4	
700 1150 64 5 powerPLX520/1150 CON-800V1200A FPX1150 FANSUPPLY5 800 1350 64 5 powerPLX600/1350 CON-800V1750A FPX1350 FANSUPPLY5 1000 1650 64 5 powerPLX700/1650 CON-800V1750A FPX1650 FANSUPPLY5 1100 1750 64 5 powerPLX800/1750 CON-800V2000A FPX1750 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5  NON-REGENERATIVE, 2-QUADRANT DRIVES 400 650 32 (50) 4 powerPL275/650 CON-800V700A FP650 FANSUPPLY4	
800         1350         64         5         powerPLX600/1350         CON-800V1750A         FPX1350         FANSUPPLY5           1000         1650         64         5         powerPLX700/1650         CON-800V1750A         FPX1650         FANSUPPLY5           1100         1750         64         5         powerPLX800/1750         CON-800V2000A         FPX1750         FANSUPPLY5           1200         1950         64         5         powerPLX900/1950         CON-800V2000A         FPX1950         FANSUPPLY5           NON-REGENERATIVE, 2-QUADRANT DRIVES           400         650         32 (50)         4         powerPL275/650         CON-800V700A         FP650         FANSUPPLY4	
1000         1650         64         5         powerPLX700/1650         CON-800V1750A         FPX1650         FANSUPPLY5           1100         1750         64         5         powerPLX800/1750         CON-800V2000A         FPX1750         FANSUPPLY5           1200         1950         64         5         powerPLX900/1950         CON-800V2000A         FPX1950         FANSUPPLY5           NON-REGENERATIVE, 2-QUADRANT DRIVES           400         650         32 (50)         4         powerPL275/650         CON-800V700A         FP650         FANSUPPLY4	
1100 1750 64 5 powerPLX800/1750 CON-800V2000A FPX1750 FANSUPPLY5 1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5  NON-REGENERATIVE, 2-QUADRANT DRIVES  400 650 32 (50) 4 powerPL275/650 CON-800V700A FP650 FANSUPPLY4	
1200 1950 64 5 powerPLX900/1950 CON-800V2000A FPX1950 FANSUPPLY5  NON-REGENERATIVE, 2-QUADRANT DRIVES 400 650 32 (50) 4 powerPL275/650 CON-800V700A FP650 FANSUPPLY4	
NON-REGENERATIVE, 2-QUADRANT DRIVES           400         650         32 (50)         4         powerPL275/650         CON-800V700A         FP650         FANSUPPLY4	
400 650 32 (50) 4 <i>power</i> PL275/650 CON-800V700A FP650 FANSUPPLY4	
- ()	
450 750 32 (50) 4 <i>power</i> PL315/750 CON-800V850A FP750 FANSUPPLY4	
500 850 32 (50) 4 <i>power</i> PL360/850 CON-800V850A FP850 FANSUPPLY4	
575 950 32 (50) 4 <i>power</i> PL400/950 CON-800V1000A FP950 FANSUPPLY4	
700 4450 04 5	
700 1150 64 5 <i>power</i> PL520/1150 CON-800V1200A FP1150 FANSUPPLY5	
800 1350 64 5 <i>power</i> PL600/1350 CON-800V1750A FP1350 FANSUPPLY5	
1000 1650 64 5 <i>power</i> PL700/1650 CON-800V1750A FP1650 FANSUPPLY5	
1100 1750 64 5 <i>power</i> PL800/1750 CON-800V2000A FP1750 FANSUPPLY5	
1200 1950 64 5 <i>power</i> PL900/1950 CON-800V2000A FP1950 FANSUPPLY5	



**NOTE 1:** For "doors closed", safe start up & maintenance practices, all size 4 & 5 drives have an embedded drive.web speedy with isolated USB and Ethernet ports as standard for full remote configuration & peer-to-peer Ethernet (see pages 20 & 21)

**Dimensions**Size 4, 650A 18.5" w x 53.5" h x 14.1" d (470 x 1360 x 358mm) 235 lbs (108 kg)
Size 4 > 650A 18.5" w x 59.6" h x 14.1" d (470 x 1512 x 358mm) 240 lbs (110 kg)
Size 5 30" w x 67" h x 16" d (762 x 1698 x 402mm) 575 lbs (260 kg)

NOTE 2: Please call for 600 & 690VAC powerDRIVE versions.

**NOTE 3:** Due to the weight and dimensions, size 5 powerDRIVES are shipped in two parts that will need to be assembled on site.

Size 4 powerPL/X275 - 440

# Fe start up ize 4 & 5 web speedy of ports as guration & s 20 & 21) Weight 3mm) 235 lbs (108 kg) 8mm) 240 lbs (110 kg) 575 lbs (260 kg) Size 5 powerPL/X520 - 980

# **PLXD Separate Stack Controller**

The PLXD is a great retrofit option for controlling large separate SCR stacks in either 6 or 12-pulse DC drive configurations and also for wound rotor motor SCR stack control. The unit has all the standard PL/X series drive features together with:

- Available for stacks up to 690 volts AC, 700 volts DC
- Built-in 32 amps fully automatic field controller (optional 50 amps rating)
- Separate gate pulse driver unit for greater noise immunity and reliability
- · Optional current transformers
- Optional Ethernet and <u>drive.web</u> distributed control Please call for details

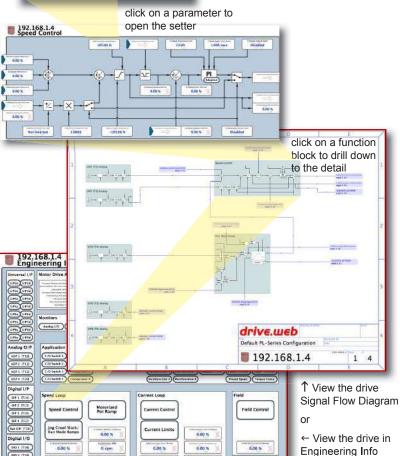


# savvy tools for the PL/X DC drives

# ▲ 105.00 ₹ ▼ 888 ₽ ₽ 105.00 %

#### drive.web automation

- Intuitive
- Easy
- Reliable
- · Very smart!



# drive.шеb smart drives



Add a drive.web module to any drive for unlimited automation capability:

- · Powerful programmable control functions
- Peer-to-peer networking over Ethernet
- · Smart iPad or touch screen PC operation
- Internet access

smarty - adds programmable control & extra I/O **speedy** - adds programmable control & gateway

- · Get clear graphical signal flow system diagrams.
- Send event driven emails from your drive.
- · All in one unique, intuitive, environment.

# рошеrSL Series

Analog DC drives - up to 200HP

powerSLX Regen, reversing drive + field controller powerSL Non-reversing drive + field controller powerSLE Non-reversing OEM drive.

Please call for details



# Power Quality For DC Drives

**Drive Isolation Transformers** 

# Standard specification: NEMA 1 enclosed for indoor use K-factor 4 s: Delta Primary Whe Second Tap Ap Op Ou Fre Vol Sp Fui 80°

vviridings, Delta Frimary, vvye Secondary		
Aluminum or Copper windings as indicated	DIT14**	14KVA - AI (10HP)
Taps at ± 5%	DIT20**	20KVA - AI (15HP)
Approvals: UL, C-UL	DIT27**	27KVA - AI (20HP)
7. pp. 6 valo. 6 2, 6 6 2	DIT34**	34KVA - AI (25HP)
Options	DIT40**	40KVA - AI (30HP)
Outdoor enclosures	DIT51**	51KVA - AI (40HP)
Frequencies other than 60Hz	DIT63**	63KVA - AI (50HP)
Voltages other than 230/460/575 pri, 230/460 sec	DIT75**	75KVA - AI (60HP)
Special Taps	DIT93**	93KVA - AI (75HP)
Fungus Proofing	D <b>I</b> T118**	118KVA - AI (100H
80°C & 115°C Rise	DIT145**	145KVA - AI (125H
Copper Windings	DIT175**	175KVA - AI (150H
Electrostatic Shield	DIT220**	220KVA - AI (200H
K-13, K-20, K-30	DIT275**	275KVA - AI (250H
N 10, N 20, N 00	DIT330**	330KVA - AI (300H
Discount Schedule SX-1	DIT440**	440KVA - AI (400H
Diocodin Conodalo O/Ci	DIT550**	550KVA - AI (500H
	DIT660**	660KVA - AI (600H

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Specification

3KVA - Cu (2HP)

6KVA - Cu (5HP)

11KVA - AI (7.5HF

DIT3\*\*

DIT6\*\*

DIT11\*\*

 Import or export data Monitor trend charts

Edit the configuration

 Drag & drop links · Access multiple drives

Line Reactors For 3-Phase DC Drives									
Model	HP. at	HP. at	Arm	Dimensions	Mount Holes	Weight			
Number	230 <b>V</b>	460 <b>V</b>	Amps	WxDxH	H×W	LBS			
LM18	5	10	20	6.0"x4.8"x3.1"	2.1"x2.0"	9			
LM37	10	20	41	7.2"x5.6"x3.4"	2.3"x3.0"	11			
LM52	15	30	58	7.2"x5.6"x3.8"	2.6"x3.0"	14			
LM67	20	40	75	9.0"x7.0"x4.8"	3.2"x3.0"	23			
LM82	25	50	91	9.0"x7.0"x4.8"	3.2"x3.0"	24			
LM120	35	75	133	10.8"x8.2"x5.6"	3.5"x3.6"	43			
LM150	40	100	166	10.8"x8.3"x5.6"	3.5"x3.6"	47			
LM195	60	125	216	9.0"x7.1"x4.9"	3.2"x3.0"	29			
LM240	75	150	266	10.8"x8.4"x5.8"	3.2"x3.6"	40			
LM300		200	333	10.8"x8.4"x6.0"	4.2"x3.6"	48			
LM375	100	250	416	10.8"x8.2"x7.3"	4.2"x3.6"	68			
LM480	150	300	533	14.8"x14.0"x10.2"	5.9"x4.6"	125			
LM600		400	666	15.5"x14.0"x11.5"	6.8"x4.6"	155			
LM750	200	500	833	15.5"x14.0"x13.0"	6.8"x4.6"	180			
LM900		600	1000	15.5"x14.0"x15.5"	9.3"x4.6"	290			
LM1125		750	1250	22.0"x20.0"x14.8"	9.5"x7.2"	400			

