

# Quick Reference DP300E



**APC**<sup>®</sup>  
AMERICAN POWER CONVERSION

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## 2. Common Data

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### Input

Voltage	3x380/400/415V*
Normal Mode	-15 to +15%
Bypass Mode	-10 to +10%

Frequency	50 Hz
Sync.range	-6 to +6%

Current curve	Sinusoidal
Power factor	1

Prospective short circuit current	
DP310E-380E	Max 30kA
DP3120E-3480E	Max 50kA

\*optional input isolation transformer is mandatory if mains input neutral is not present.

### General

Ambient temp.	0 to 40°C
Humidity	Max 95%, non cond.
Protection class	IP30
Colour	Jotun 77-11-86P, grey (close to RAL9002)

Transient attenuation 40 to 60 dB

#### Audible noise

DP310E-320E	52.0 dB(A)
DP340E	55.0 dB(A)
DP360E-380E	65.0 dB(A)
	(60.0 dB(A) at 0-70% load)
DP3120E-3160E	71.5 dB(A)
	(65.5 dB(A) at 0-70% load)
DP3240E-3320E	71.5 dB(A)
	(67.0 dB(A) at 0-70% load)
DP3480E	73.0 dB(A)

### Output

Voltage	3x380/400/415V
Sym. load	-1 to +1% static
Asym. load	-3 to +3% static
100% load step	-5 to +5% dynamic
Distortion	Max. 3%, linear load
DP310E-340E	Max. 5%, unlinear load
DP360E-3480E	Max. 6%, unlinear load

Frequency	50Hz, mains synchronized -0,1 to +0,1%, Battery Mode
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Load power factor	0,8 lag to 0,9 lead
Load crest factor	No limit

Overload	200% 60 sec. Normal Mode
	125% 10 min. Normal Mode
	150% 30 sec. Battery Mode
	1000% 0,5 sec. Bypass Mode
	125% cont. Bypass Mode

### Norms

Safety	EN50091-1 UL1778
EMC	EN50091-2 FCC class A
Charging characteristic	DIN41773

### 3. Parameter Settings

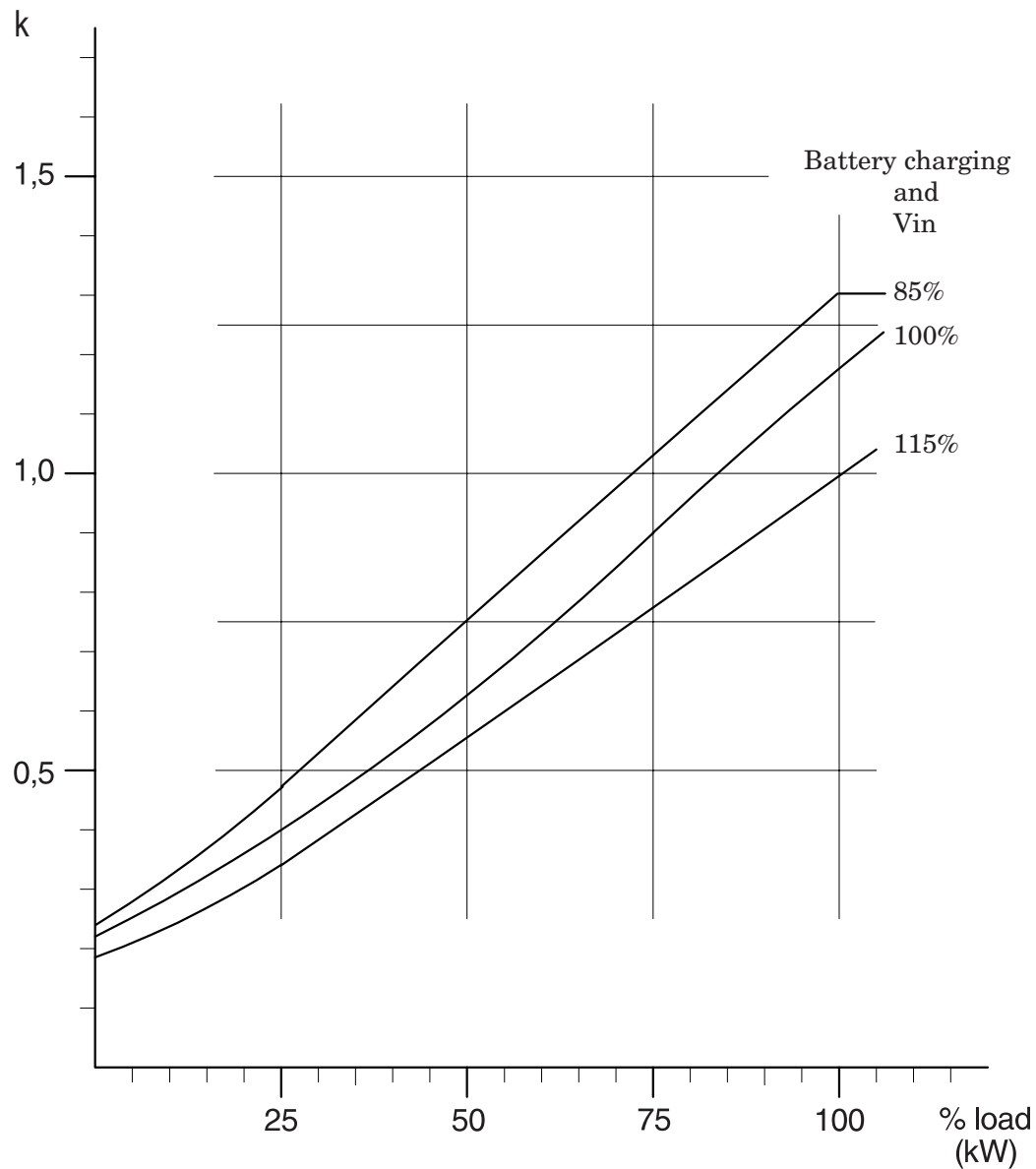
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Parameter	Pgr.range	Factory setting
Mains voltage limits, fast	---	-25 to +25%
Mains voltage limits, average	---	-15 to +15%
Bypass voltage limits, average	-4 to +4%, -6 to +6%, -8 to +8%, -10 to +10%	-10 to +10%
Frequency	---	50 Hz
Sync. range	-1/2 to +1/2%, -1 to 1%, -2 to +2%, -4 to +4%, -6 to +6%, -8 to +8%	-6 to +6%
Charge voltage		
Normal	2x(410 - 460V)	2x438V
Boost	2x(438 - 460V)	2x438V
Charge time boost	---	10 hours
Low battery warning	2x(336 - 384V)	2x346V
Low battery shut down	2x(310 - 336V)	2x326V
Aut. battery test (if activated)		
Time between tests	---	90 days
Soft start ramp	0,10,20,40 secs.	10 secs.
Slew rate	0.25,0.5,1,2,4 Hz/sec.	1 Hz/sec.
Com. fault alarm delay	0,10,20,30	0 sec.
Via ComInterface		
Remote shut down	on/off	off
RSD polarity	0/1	1
RSD time	0 - 10 min.	2 min.

If nothing else is indicated, the parameters are changeable in steps of 1 unit.

## 4. Input current

$$I_{in} = \text{Nominal } I_{out} \times k$$

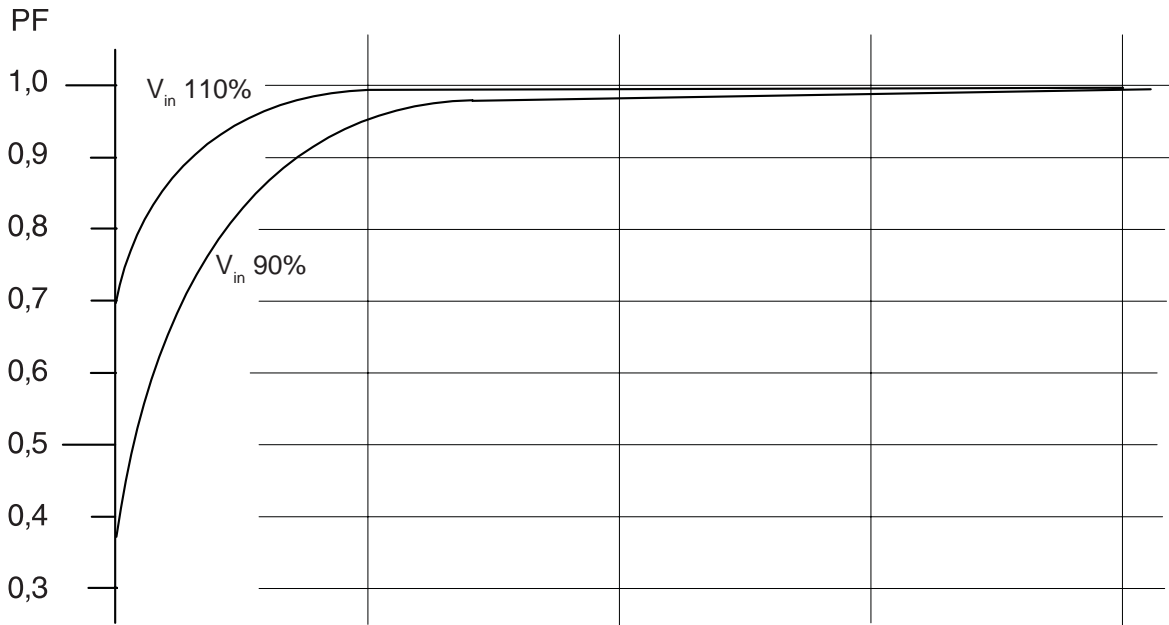


Nominal Iout [A]

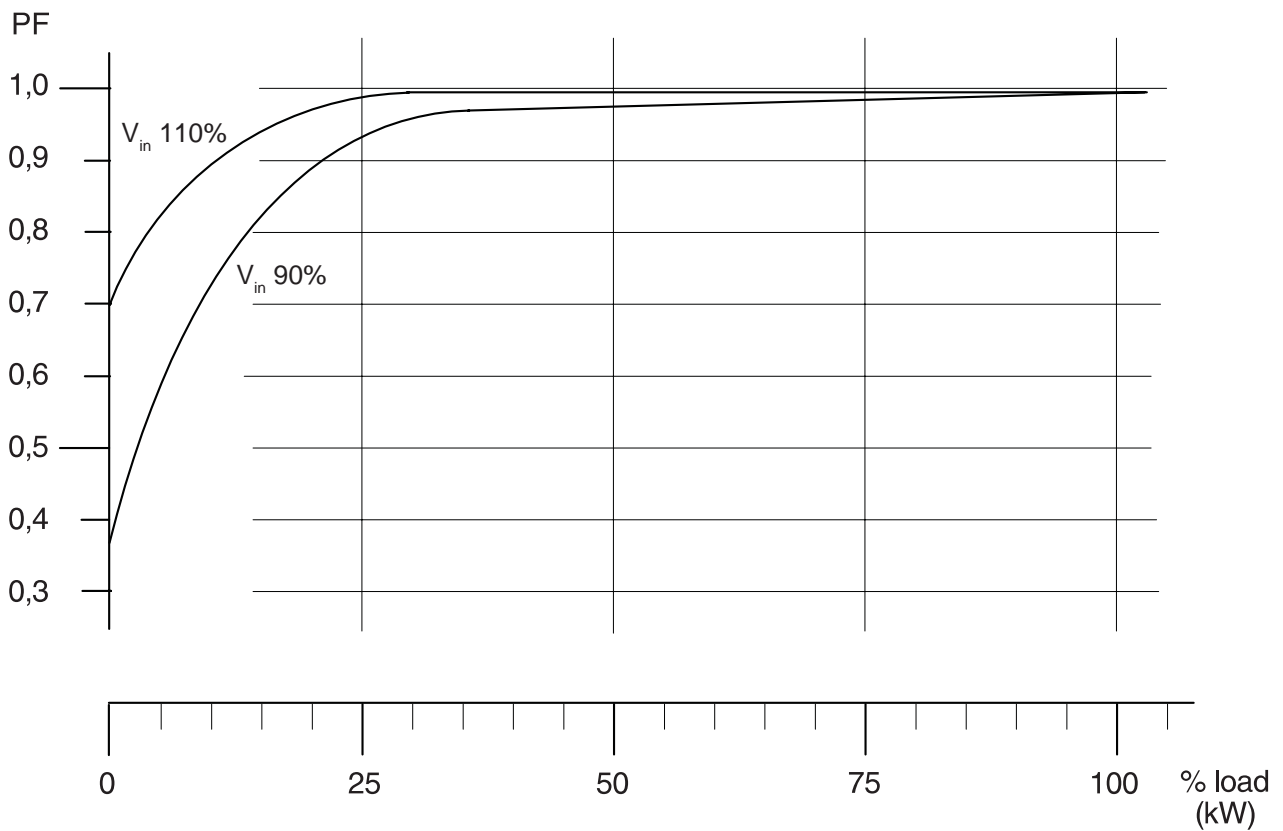
DP300E type	10	20	40	60	80	120	160	240	320	480
380V	15,2	30,3	60,6	90,9	121	182	243	365	486	729
400V	14,5	29,0	58,0	87,0	116	173	231	346	462	693
415V	13,9	27,8	55,6	83,3	111	167	223	334	446	669

## 5. Input PF

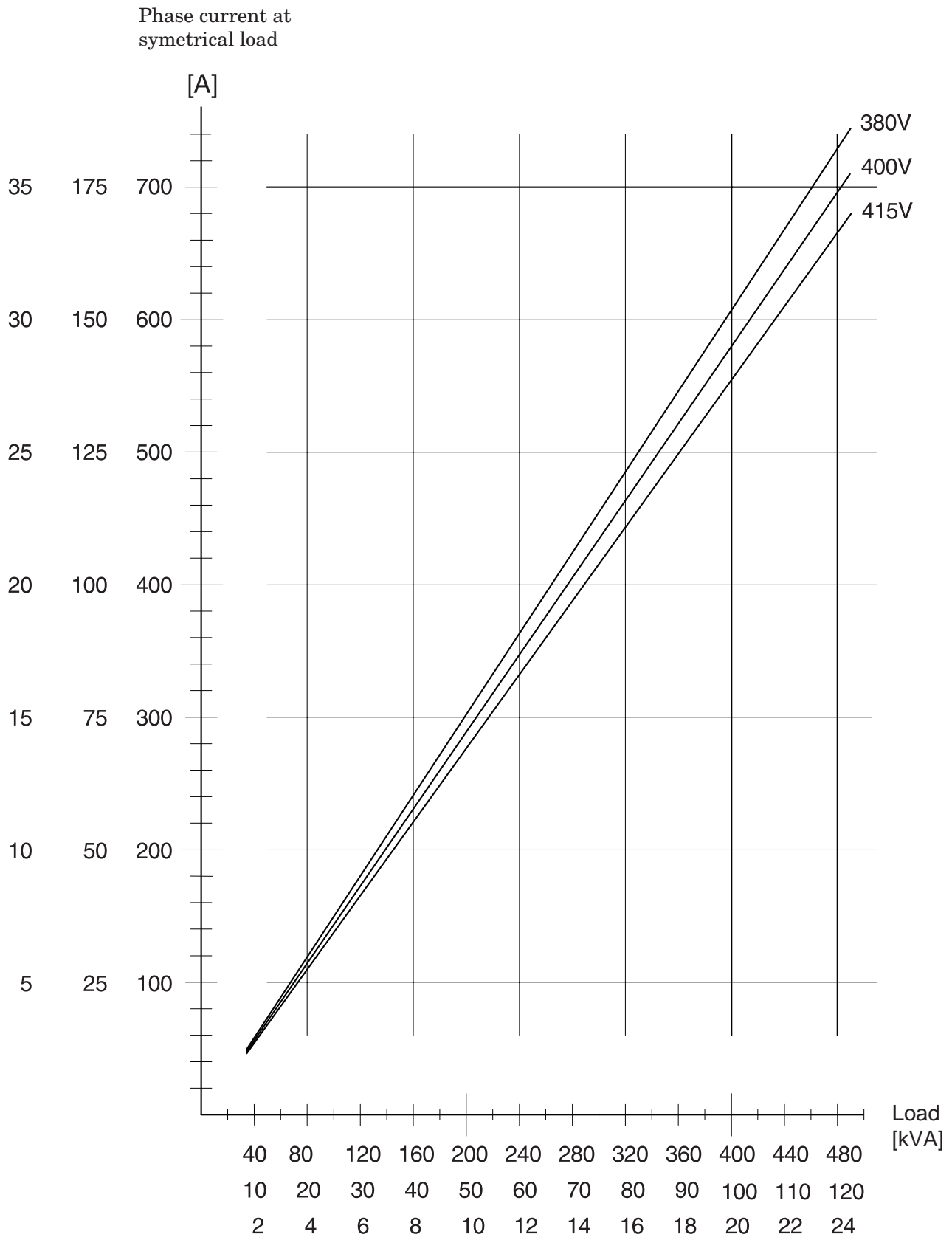
### Linear load



### SMPS load



## 6. Output current



## 7. DC Data

### Common Data

Nominal voltage	3x384V	
Number of battery cells	2x192 pcs.	
Charging window	2x(410V - 460V)	Factory setting: Float charging 2x438V Boost charging 2x460V
Low bat. warning window	2x(336V - 384V)	Factory setting 2x346V
Low bat. shut down window	2x(310V - 336V)	Factory setting 2x326V

### Currents

Type	310E	320E	340E	360E	380E	3120E	3160E	3240E	3320E	3480E
Charging	1,14A	2,3A	4,6A	6,8A	9,1A	13,7A	18A	27A	37A	55A
Nom. Dis-chg.*	14A	28A	55A	81A	108A	165A	220A	329A	436A	658A
Max. Dis-chg.*	16A	33A	65A	96A	128A	195A	259A	388A	514A	775A

\*100% load PF=1

### Efficiencies DC to AC

Load DP	Linear Load				SMPS Load			
	25%	50%	75%	100%	25%	50%	75%	100%
DP310E	88,8%	92,6%	93,0%	93,5%	85,5%	89,0%	89,5%	90,0%
DP320E	89,3%	93,1%	93,5%	94,0%	86,0%	89,3%	90,0%	90,5%
DP340E	91,0%	94,0%	94,5%	94,5%	88,0%	90,1%	91,7%	92,3%
DP360E	93,0%	94,5%	95,5%	96,0%	89,0%	92,0%	92,8%	93,2%
DP380E	93,2%	95,5%	96,0%	96,1%	90,0%	92,8%	93,2%	93,5%
DP3120E	88,6%	93,0%	94,2%	94,6%	89,7%	92,5%	92,9%	93,2%
DP3160E	91,2%	93,9%	94,6%	94,7%	90,0%	92,8%	93,2%	93,5%
DP3240E	90,0%	94,2%	95,2%	95,4%	88,5%	92,0%	93,0%	93,2%
DP3320E	92,2%	95,0%	95,4%	95,5%	90,0%	92,8%	93,2%	93,5%
DP3480E	91,7%	94,5%	94,8%	95,0%	90,0%	92,8%	93,2%	93,5%

## 8. Back-up Times DP310E-380E

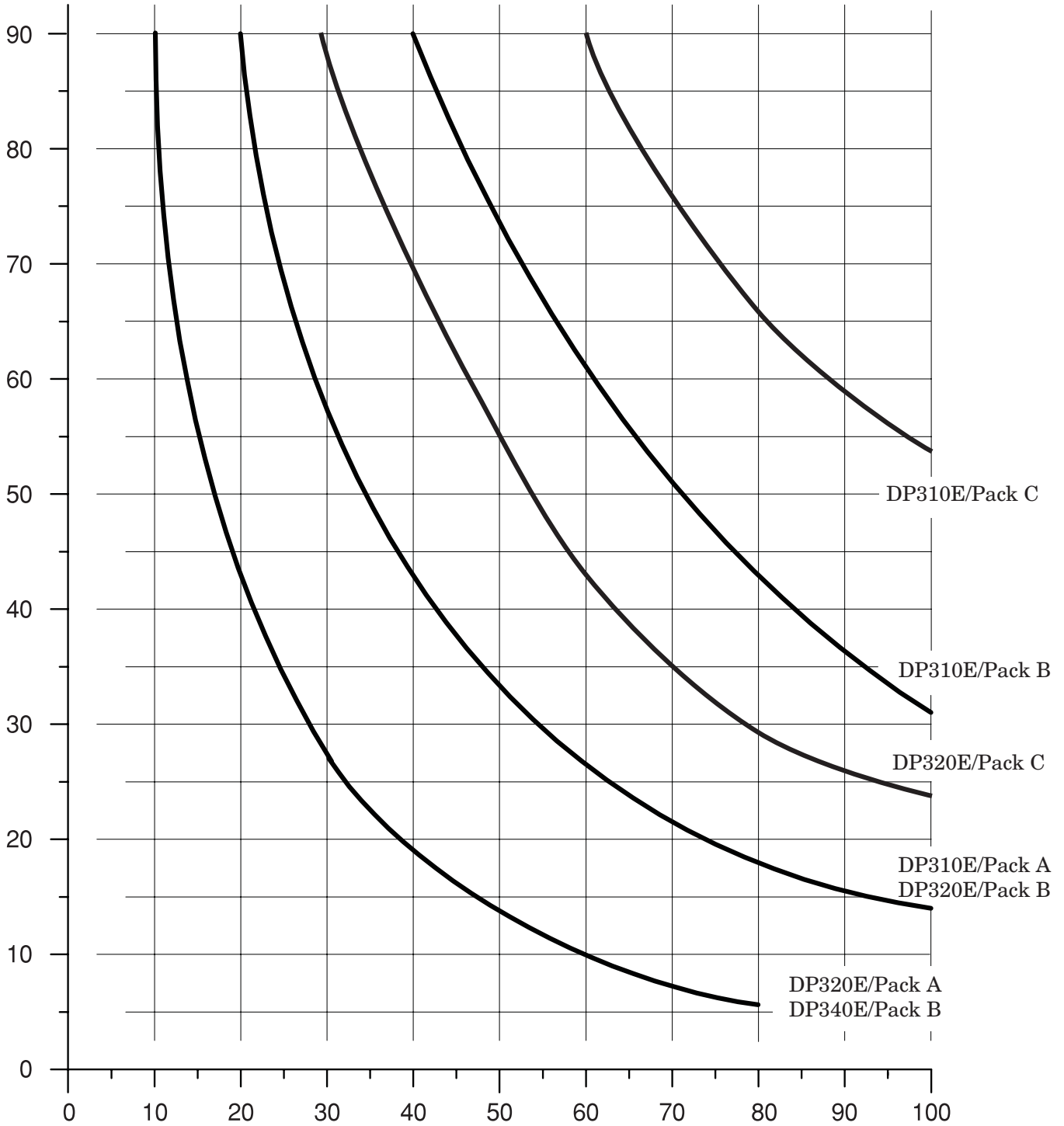
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# 8.1 Back-up Time DP310E - 340E 7 Ah standard Batteries\*

Back-up Time (typical at 20° C amb.)  
[Min.]

Battery pack A : 1 x 64 pcs 7Ah (1xBP I)  
 Battery pack B : 2 x 64 pcs 7Ah (2xBP I)  
 Battery pack C : 3 x 64 pcs 7Ah (3xBP I)



$$\text{Load \%} = \frac{\text{Load power [kVA]}}{\text{System size [kVA]}} \times \text{PF} \times 100$$

$$\text{PF} = \frac{\text{Load power [kVA]}}{\text{Load power [kVA]}}$$

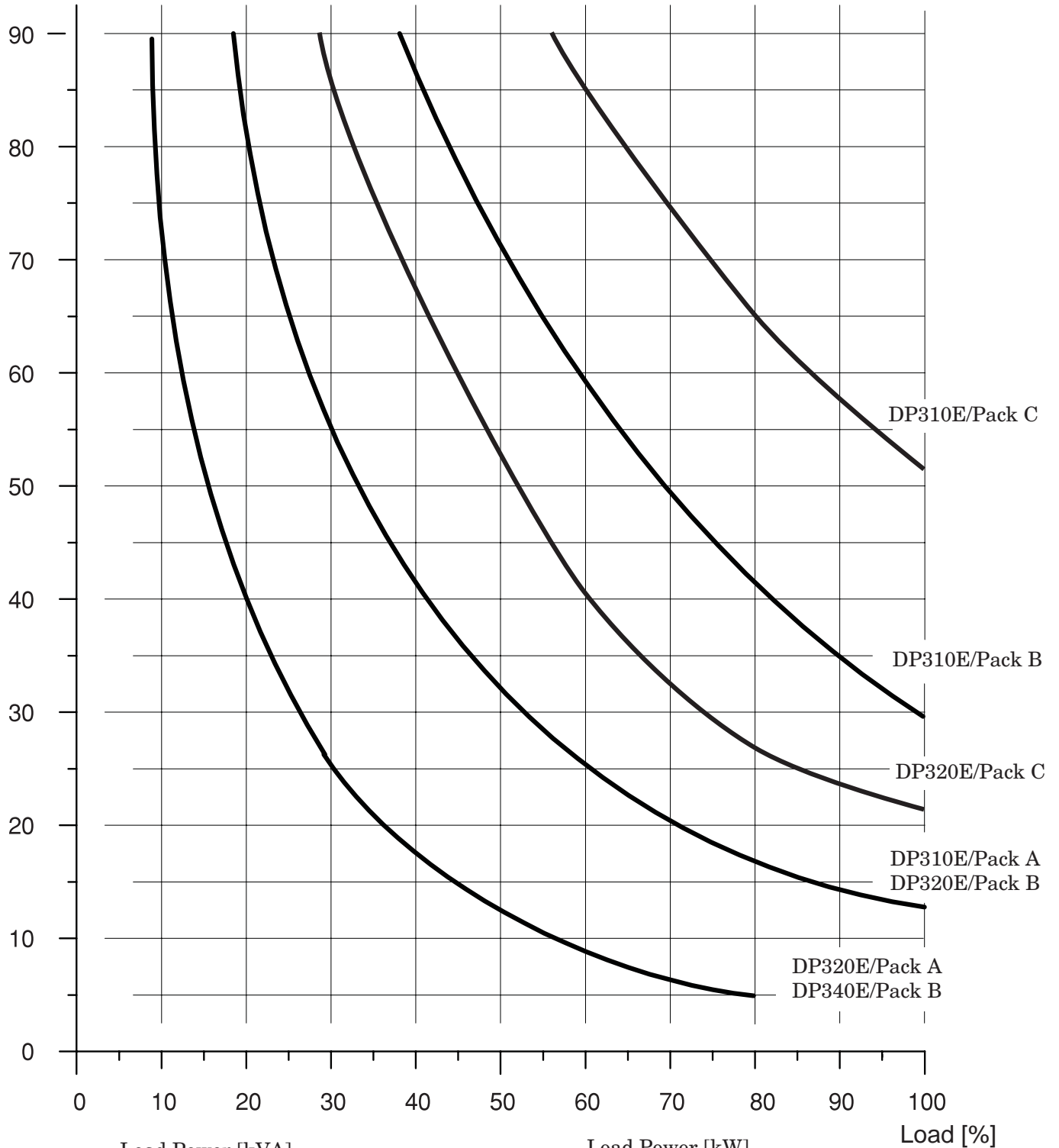
Load [%]

\*3-5 years design life time

## 8.2 Back-up Time DP310E - 340E, 7 Ah Longlife Batteries\*

Back-up Time (typical at 20° C amb.)  
[Min.]

Battery pack A : 1 x 64 pcs 7Ah (1xBP I L)  
Battery pack B : 2 x 64 pcs 7Ah (2xBP I L)  
Battery pack C : 3 x 64 pcs 7Ah (3xBP I L)



$$\text{Load \%} = \frac{\text{Load Power [kVA]}}{\text{System size [kVA]}} \times \text{PF} \times 100$$

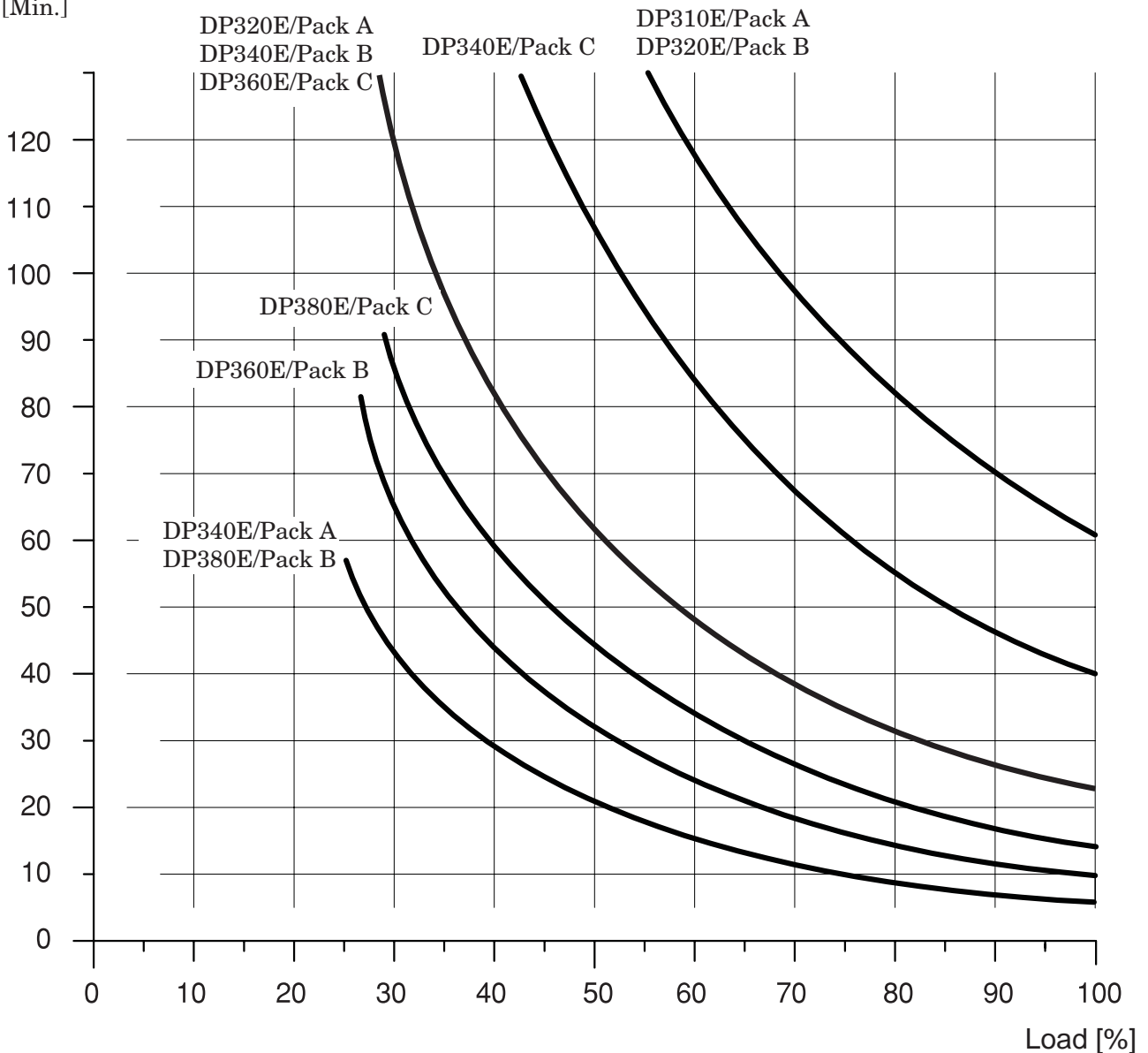
$$\text{PF} = \frac{\text{Load Power [kW]}}{\text{Load power [kVA]}}$$

\*6-10 years design life time

## 8.3 Back-up Time DP310E - 380E, 24 Ah Standard Batteries\*

Battery pack A : 1 x 64 pcs 24Ah (1 x BP II)  
 Battery pack B : 2 x 64 pcs 24Ah (2 x BP II)  
 Battery pack C : 3 x 64 pcs 24Ah (3 x BP II)

Back-up Time (typical at 20° C amb.)  
 [Min.]



$$\text{Load \%} = \frac{\text{Load Power [kVA]}}{\text{System size [kVA]}} \times \text{PF} \times 100$$

$$\text{PF} = \frac{\text{Load Power [kW]}}{\text{Load power [kVA]}}$$

\*3-5 years design life time

## 8.4 Back-up Time DP310E - 380E, 24 Ah Longlife Batteries\*

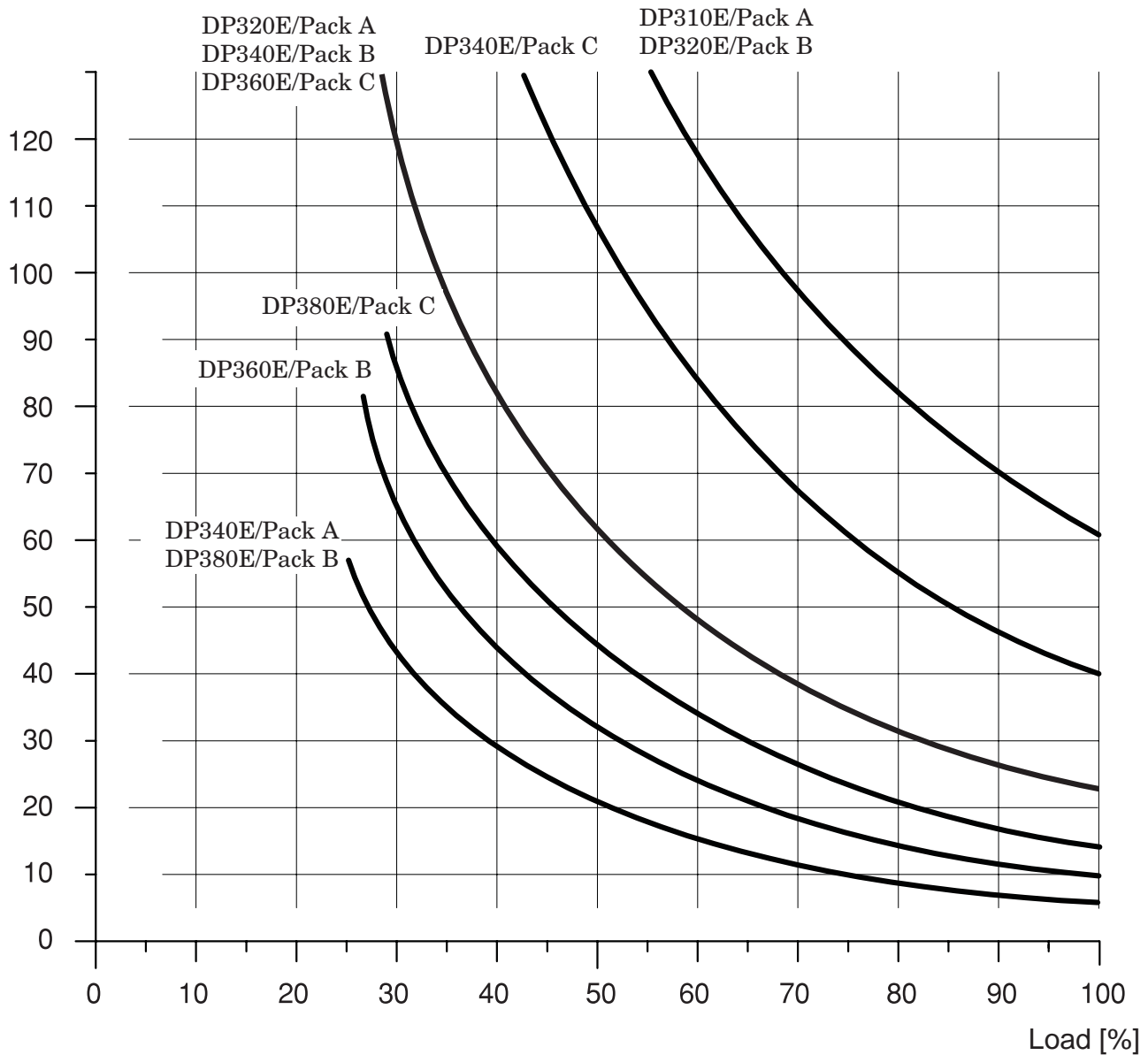
Battery pack A : 1 x 64 pcs 24Ah (1 x BP II L)

Battery pack B : 2 x 64 pcs 24Ah (2 x BP II L)

Battery pack C : 3 x 64 pcs 24Ah (3 x BP II L)

Back-up Time (typical at 20° C amb.)

[Min.]



$$\text{Load \%} = \frac{\text{Load Power [kVA]}}{\text{System size [kVA]}} \times \text{PF} \times 100$$

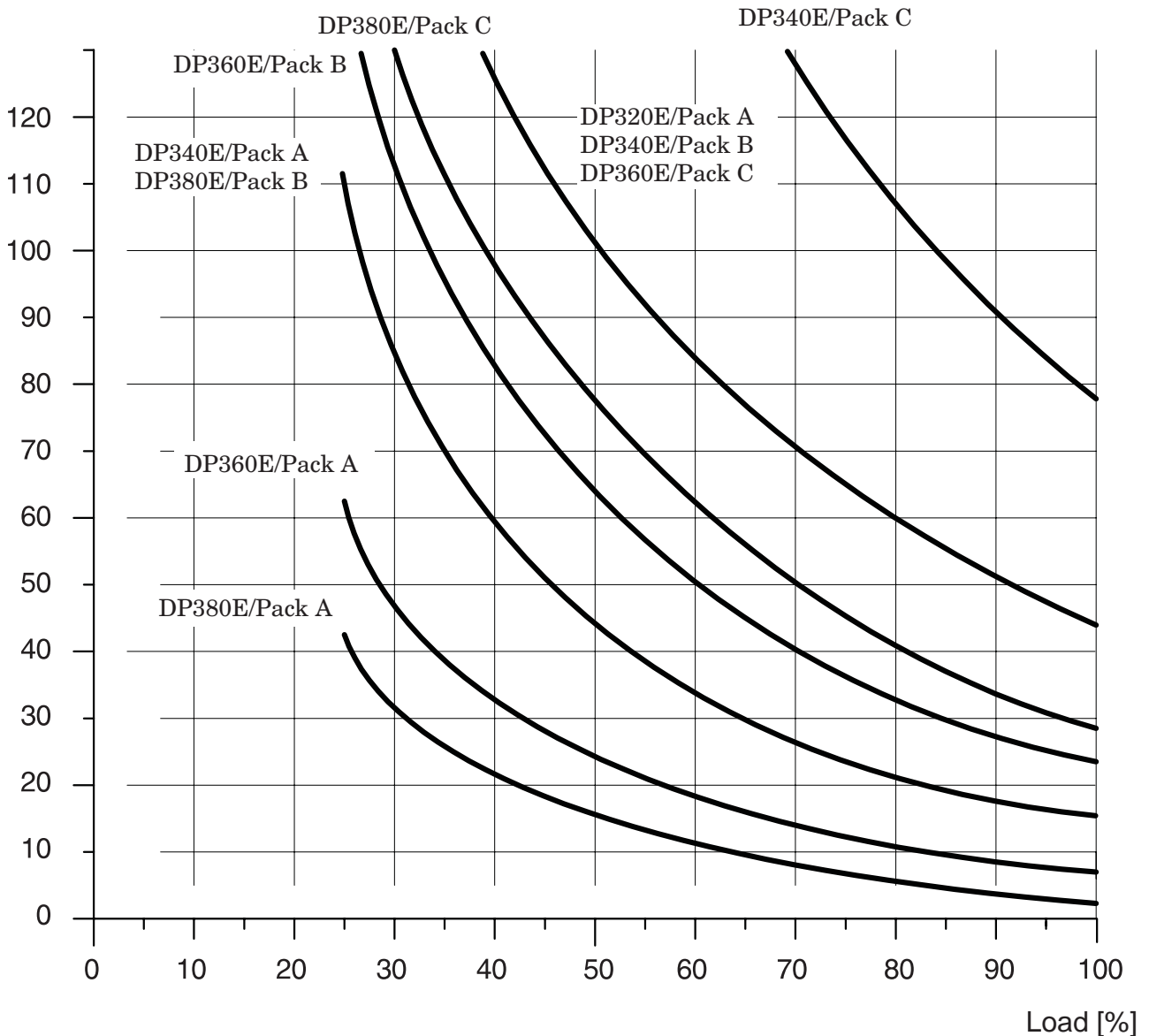
$$\text{PF} = \frac{\text{Load Power [kW]}}{\text{Load power [kVA]}}$$

\*6-10 years design life time

## 8.5 Back-up Time DP320E - 380E, 38 Ah Standard Batteries\*

Battery pack A : 1 x 64 pcs 38Ah (1 x BP III)  
 Battery pack B : 2 x 64 pcs 38Ah (2 x BP III)  
 Battery pack C : 3 x 64 pcs 38Ah (3 x BP III)

Back-up Time (typical at 20° C amb.)  
 [Min.]



$$\text{Load \%} = \frac{\text{Load Power [kVA]}}{\text{System size [kVA]}} \times \text{PF} \times 100$$

$$\text{PF} = \frac{\text{Load Power [kW]}}{\text{Load power [kVA]}}$$

\*3-5 years design life time

## 8.6 Back-up Time DP320E - 380E, 38 Ah Longlife Batteries\*

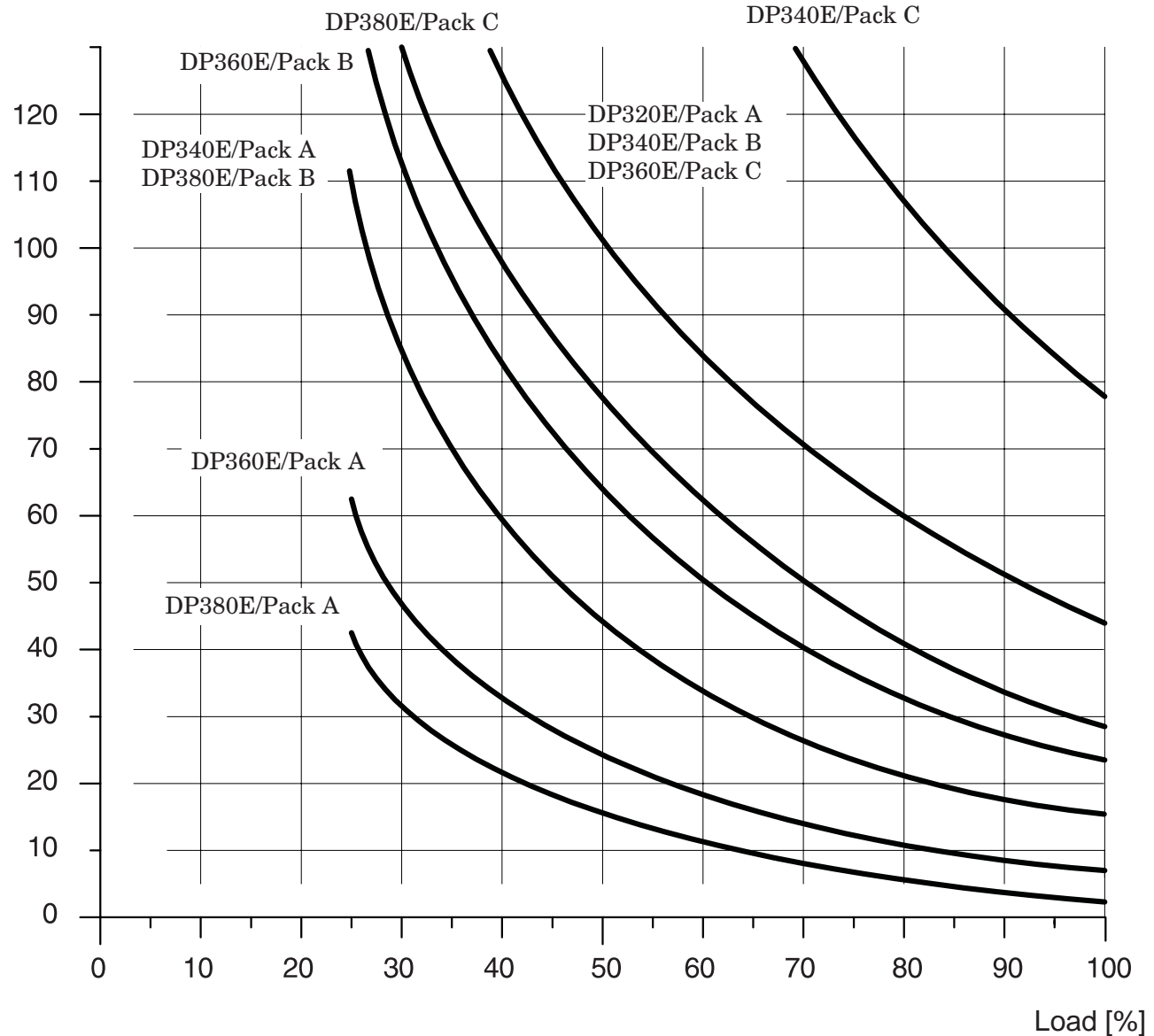
Battery pack A : 1 x 64 pcs 38Ah (1 x BP III L)

Battery pack B : 2 x 64 pcs 38Ah (2 x BP III L)

Battery pack C : 3 x 64 pcs 38Ah (3 x BP III L)

Back-up Time (typical at 20° C amb.)

[Min.]



$$\text{Load \%} = \frac{\text{Load Power [kVA]}}{\text{System size [kVA]}} \times \text{PF} \times 100$$

$$\text{PF} = \frac{\text{Load Power [kW]}}{\text{Load power [kVA]}}$$

\*6-10 years design life time

## 8.7 DP310E - 340E Configurations with built-in Batteries

### Battery Pack

BP I = Battery Pack I = 1 x 64 x 7 Ah batteries

### Back-up Times

Battery Pack I (BP I) = 1x64x7Ah batteries

Standard batteries

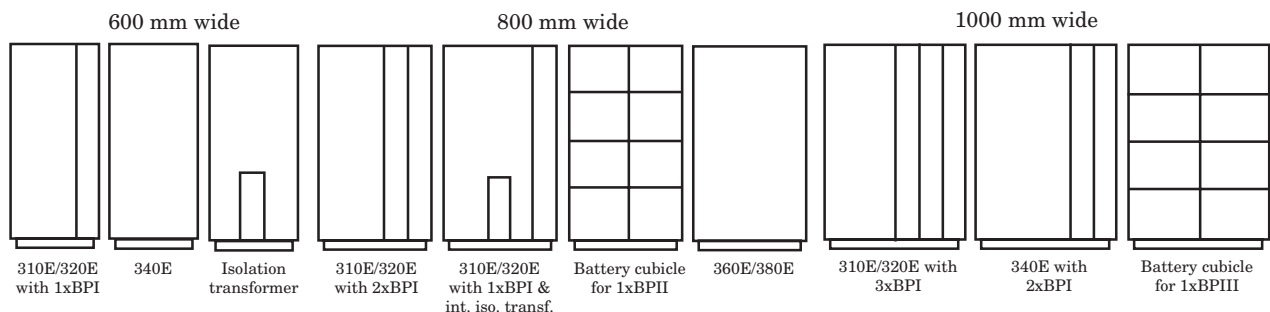
Longlife batteries

System	Built-in batteries							
	Battery packs	Back-up times [min.]			Battery packs	Back-up times [min.]		
		PF 0.6	PF 0.8	PF 1.0		PF 0.6	PF 0.8	PF 1.0
310E	1xBP I	27	18	14	1xBP I L	26	17	13
	2xBP I	60	43	32	2xBP I L	59	42	29
	3xBP I	90	66	53	3xBP I L	85	65	52
320E	1xBP I	9	6	5	1xBP I L	8	5	
	2xBP I	27	18	14	2xBP I L	26	17	13
	3xBP I	43	29	23	3xBP I L	41	27	22
340E	1xBP I				1xBP I L			
	2xBP I	9	6	5	2xBP I L	8	5	

**Cubicle Dimensions HxWxD - 1400xWx800 [mm]. W as in below table:**

System	Without batteries	Built-in Batteries		
		1xBP I	2xBP I	3xBP I
DP310E	600	600	800	1000
DP310E with built-in iso transf.	800	800		
DP320E	600	600	800	1000
DP320E with built-in iso transf.	800	800		
DP340E	600		1000	

### Cubicles



## 8.8 DP310E - 380E Configurations with external Batteries

### Battery Pack

BP II = Battery Pack II = 1 x 64 x 24Ah batteries    BPIII = Battery Pack III = 1x64x38Ah batteries

### Back-up Times

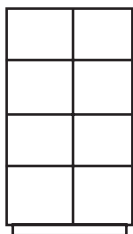
Battery Pack II (BPII) 1x64x24Ah batteries

System	Standard batteries				Longlife batteries			
	Battery packs	Separate battery cubicles			Battery packs	Back-up times [min.]		
		PF 0.6	PF 0.8	PF 1.0		PF 0.6	PF 0.8	PF 1.0
310E	1xBP II	115	80	60	1xBP II L	115	80	60
320E	1xBP II	46	31	22	1xBP II L	46	31	22
340E	1xBP II	15	8	7	1xBP II L	15	8	7
360E	1xBP II				1xBP II L			
380E	1xBP II				1xBP II L			

Battery Pack III (BPIII) 1x64x38Ah batteries

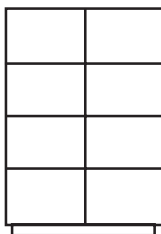
System	Standard batteries				Longlife batteries			
	Battery packs	Separate Battery Cubicles			Battery packs	Back-up times [min.]		
		PF 0.6	PF 0.8	PF 1.0		PF 0.6	PF 0.8	PF 1.0
310E	1xBP III				1xBP III L			
320E	1xBP III	84	60	44	1xBP III L	84	60	44
340E	1xBP III	34	22	15	1xBP III L	34	22	15
360E	1xBP III	18	11	7	1xBP III L	18	11	7
380E	1xBP III	11	5		1xBP III L	11	5	

800 mm wide



Battery cubicle for 1xBP II

1000 mm wide



Battery cubicle for 1xBP III

## 9. Heat Dissipation & Air Flow

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Size Type	Heat Dissipation [kW]			Air flow through unit [m3/hour]
	Idling	SMPS Load*	Linear Load*	
DP310E	0,3	0,7	0,54	400
DP320E	0,5	1,2	0,94	400
DP340E	0,85	1,8	1,5	900
DP360E	1,8	2,9	2,4	1000
DP380E	1,8	3,6	2,9	1000
DP3120E	4,1	6,5	5,3	2000
DP3160E	4,1	7,1	6,2	2000
DP3240E	7,0	10,4	9,2	4200
DP3320E	7,0	12,7	10,6	4200
DP3480E	9,6	20,2	15,9	7000

\* 100% load, normal operation.

SMPS load pr. EN50091-3, nominal conditions

## 10. Efficiencies

**Linear load** (fully charged battery, nominal conditions)

Mode Load System	DC to AC [%]				AC to AC* [%]			
	25%	50%	75%	100%	25%	50%	75%	100%
DP310E	88,8	92,6	93,0	93,5	88,6	92,6	94,0	94,8
DP320E	89,3	93,1	93,5	94,0	89,3	93,3	94,7	95,5
DP340E	91,0	94,0	94,5	94,5	91,7	95,1	96,3	96,5
DP360E	92,0	94,5	95,5	96,0	88,7	93,3	95,3	96,1
DP380E	93,2	95,5	96,1	96,1	91,0	94,8	96,1	96,5
DP3120E	88,6	93,0	94,2	94,6	86,0	92,3	94,1	95,2
DP3160E	91,2	93,9	94,6	94,7	88,8	93,6	95,2	95,8
DP3240E	90,0	94,2	95,2	95,4	88,5	92,9	94,9	95,8
DP3320E	92,2	95,0	95,4	95,5	90,3	94,3	95,8	96,4
DP3480E	91,7	94,5	94,8	95,0	91,5	95,0	96,0	96,4

**SMPS load** (Fully charged battery, nominal conditions)  
(According to pr EN50091-3)

Mode Load System	DC to AC [%]				AC to AC* [%]			
	25%	50%	75%	100%	25%	50%	75%	100%
DP310E	85,5	89,0	89,5	90,0	85,0	89,3	90,8	91,3
DP320E	86,0	89,3	90,0	90,5	85,6	90,0	91,4	92,0
DP340E	88,0	90,1	91,7	92,3	88,5	90,4	92,5	94,1
DP360E	89,0	92,0	92,8	93,2	87,0	89,5	92,1	93,5
DP380E	90,0	92,8	93,2	93,5	88,2	90,8	93,5	93,9
DP3120E	89,7	92,5	92,9	93,2	86,4	89,0	91,6	92,0
DP3160E	90,0	92,8	93,2	93,5	88,2	90,8	92,0	93,4
DP3240E	88,5	92,0	93,0	93,2	87,7	89,6	91,8	93,5
DP3320E	90,0	92,8	93,2	93,5	88,2	90,8	93,5	94,1
DP3480E	90,0	92,8	93,2	93,5	88,7	91,0	93,4	93,8

\*The AC to AC values are for 400 and 415V mains input. At 380V mains input the values have to be deducted with 0,6. With one optional isolation transformer the values have to be deducted with 4% for DP310E-320E, 3% for DP340E-380E and 2,5% for DP3120E-3480E.

## 11. Dimensions & Weights

### Dimensions

Size Type	Height [mm]	Width [mm]	Depth [mm]
DP310E	1400	600/800/1000	800
DP320E	1400	600/800/1000	800
DP340E	1400	600/1000	800
DP360E	1400	800	800
DP380E	1400	800	800
DP3120E	1800	1125	800
DP3160E	1800	1125	800
DP3240E	1800	1600	800
DP3320E	1800	1600	800
DP3480E	1800	1900	800

### Weight

Type	Cubicle width [mm]						Add on for:	
	600	800	1000	1100	1600	1900	1 of BPI	Iso.transf.
DP310E	190 kg*	200 kg*	210 kg*	—	—	—	175 kg	110 kg
DP320E	210 kg*	220 kg*	230 kg*	—	—	—	175 kg	170 kg
DP340E	280 kg*	—	300 kg*	—	—	—	175 kg	—
DP360E	—	410 kg	—	—	—	—	—	—
DP380E	—	440 kg	—	—	—	—	—	—
DP3120E	—	—	—	800 kg	—	—	—	—
DP3160E	—	—	—	800 kg	—	—	—	—
DP3240E	—	—	—	—	1400 kg	—	—	—
DP3320E	—	—	—	—	1400 kg	—	—	—
DP3480E	—	—	—	—	—	1800 kg	—	—

\*Without batteries

## 12. Fuses/MCCBs

Fuse Type	Input Max. external fuse [A]			Battery		Output Max. external fuse [A]
	380V	400V	415A	Built-in Fuse [A]	External MCCB[A]	
DP310E	20	20	20	20	25	16
DP320E	40	40	40	40	50	32
DP340E	80	80	80	80	63	63
DP360E	125	125	125		125	100
DP380E	160	160	160		125	125
DP3120E	250	250	250		200	200
DP3160E	315	315	315		250	250
DP3240E	500	500	500		400	400
DP3320E	630	630	630		500	500
DP3480E	1000	1000	1000		800	800

\*External output fuses are only mandatory if output cables with dimensions from the section “Cables” are used.

All fuses are DIN LV HRC type gl 500V

MCCBs are according to IEC 947 (low instantaneously for DC)

## 13. Cables

All dimensions are in mm<sup>2</sup> for copper PVC insulated cables at max. 30°C ambient temperature

According to: IECC 364-5-532 / CENELEC R64.001.

Installation method: Insulated conductors in conduit on wall.

Number of circuit: 1

Please also refer to local legal provisions.

Shielded multi cables with 0.14 mm<sup>2</sup> conductors will be suitable as communication cables

System  Type	Ext. Input Cable [mm <sup>2</sup> ]			Ext. PE Cable [mm <sup>2</sup> ]	Ext.* Output Cable [mm <sup>2</sup> ]	Ext.** System Earth Cable [mm <sup>2</sup> ]	Ext. Battery Cable [mm <sup>2</sup> ]	Ext. Alarm Cable [max mm <sup>2</sup> ]
	380V	400V	415A					
DP310E	4	4	4	4	2,5	4	4	2
DP320E	10	10	10	10	6	4	4	2
DP340E	25	25	25	16	16	10	16	2
DP360E	50	50	50	16	35	25	50	2
DP380E	70	70	70	35	50	25	50	2
DP3120E	120	120	120	50	95	25	95	2
DP3160E	185	185	185	70	150	25	150	2
DP3240E	2//120	2//120	2//120	95	2//95	25	2//95	2
DP3320E	2//185	2//185	2//185	150	2//150	25	2//150	2
DP3480E	3//185	3//185	3//185	185	3//150	25	3//150	2

\*The dimensions listed require external output fuses according to the values listed in the section "Fuses/MCCBs". Without external output fuses the output cables must have the same size as the input cables.

Please observe that loads from single phase Switch Mode Power Supplies increase the neutral cable current!

At 100% SMPS loads the neutral cable should be dimensioned for 200% of the phase current.

\*\* Must be rated as external PE cable if mains system is not supplying PE.

## 14. Connection Terminals

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### Terminals

Terminal Type	Input [mm]	Battery [mm]	Output [mm]	PE [mm]	System Earth [mm]	Contr.& Alarm [mm]
DP310E	6	6	6	6	6	0,75-2
DP320E	6	6	6	6	6	0,75-2
DP340E	8	8	8	8	8	0,75-2
DP360E	8	8	8	8	8	0,75-2
DP380E	8	8	8	8	8	0,75-2
DP3120E	12	12	12	12	12	0,75-2
DP3160E	12	12	12	12	12	0,75-2
DP3240E	12	12	12	12	12	0,75-2
DP3320E	12	12	12	12	12	0,75-2
DP3480E	12	12	12	12	12	0,75-2

The terminals for the control & alarm cables are screw clamps.  
All other terminals are stud terminals.

### Tighten Torque for Stud Terminals

Stud size	6 mm	8 mm	10 mm	12 mm
Torque	7,5 Nm	15 Nm	30 Nm	50 Nm

## 15.0

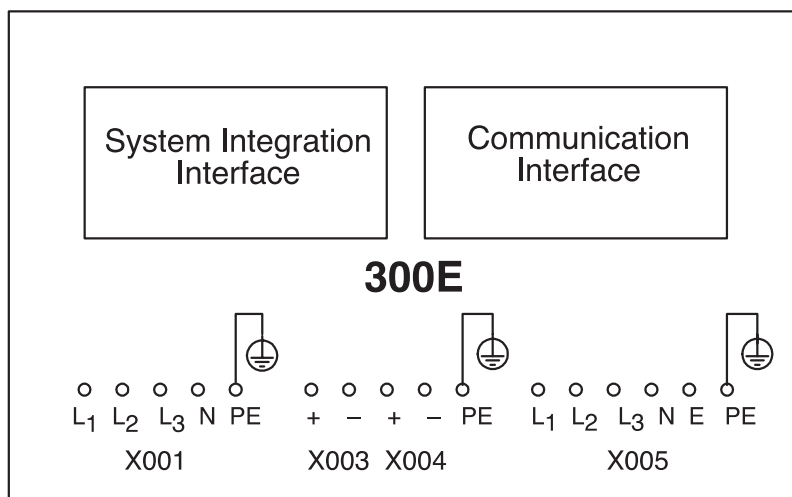
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<b>Section</b>	<b>Subject</b>
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15.0	Table of Contents
15.1	DP300E Main connections
15.2	System Integration Interface
15.3	Communication Interface
15.4	Service Bypass Panel
15.5	DP300E with Service Bypass Panel
15.6	DP300E with external Battery via MCCB/Fuse-box
15.7	Parallel DP300E's with Service Bypass Panel and external Batteries via MCCB boxes
15.8	MCCB-box
15.9	Fuse-box
15.10	DP300E with separate Battery Cubicle
15.11	Battery Cubicle with MCCBs
15.12	Battery Cubicle with Fuses
15.13	Isolation transformer module
15.14	Yy0 Isolation transformer module, diagramme
15.15	DP300E with external Yy0 isolation transformer at output
15.16	DP300E with external Yy0 isolation transformer at input

## 15.1 DP300E Main Connections

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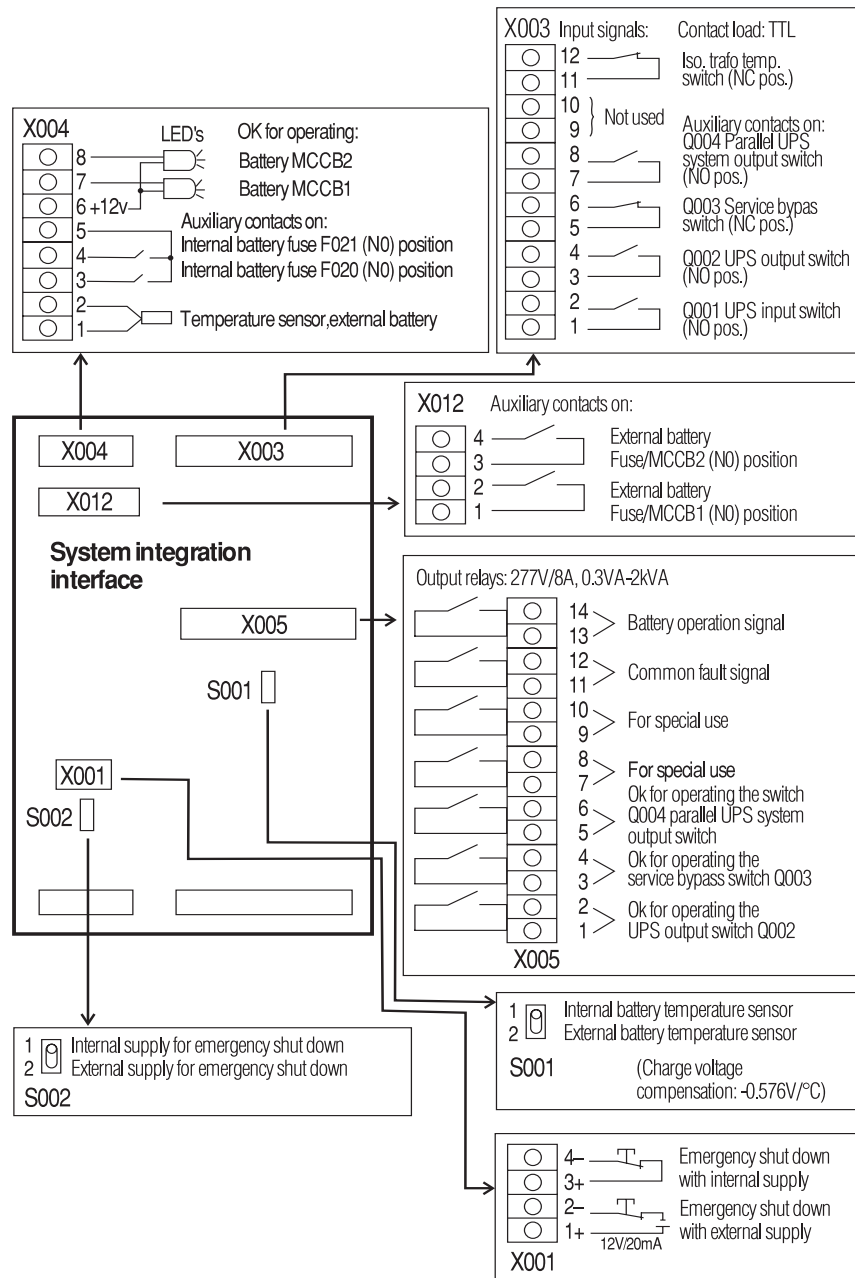


- X001 Mains input supply
- X003 Battery 1 input supply
- X004 Battery 2 input supply
- X005 UPS output

System Integration Interface - please refer to separate diagram

Communication Interface - please refer to separate diagram

## 15.2 System Integration Interface



### Remarks:

#### X003 and X004, auxiliary contacts:

When switching Q001, Q002, MCCB1 and MCCB2 from “ON” to “OFF” the auxiliary contacts have to give a signal before the corresponding mains switch is opened. When switching from “OFF” to “ON” the auxiliary contact has to be activated with max. 0.5 sec. delay from the corresponding main switch.

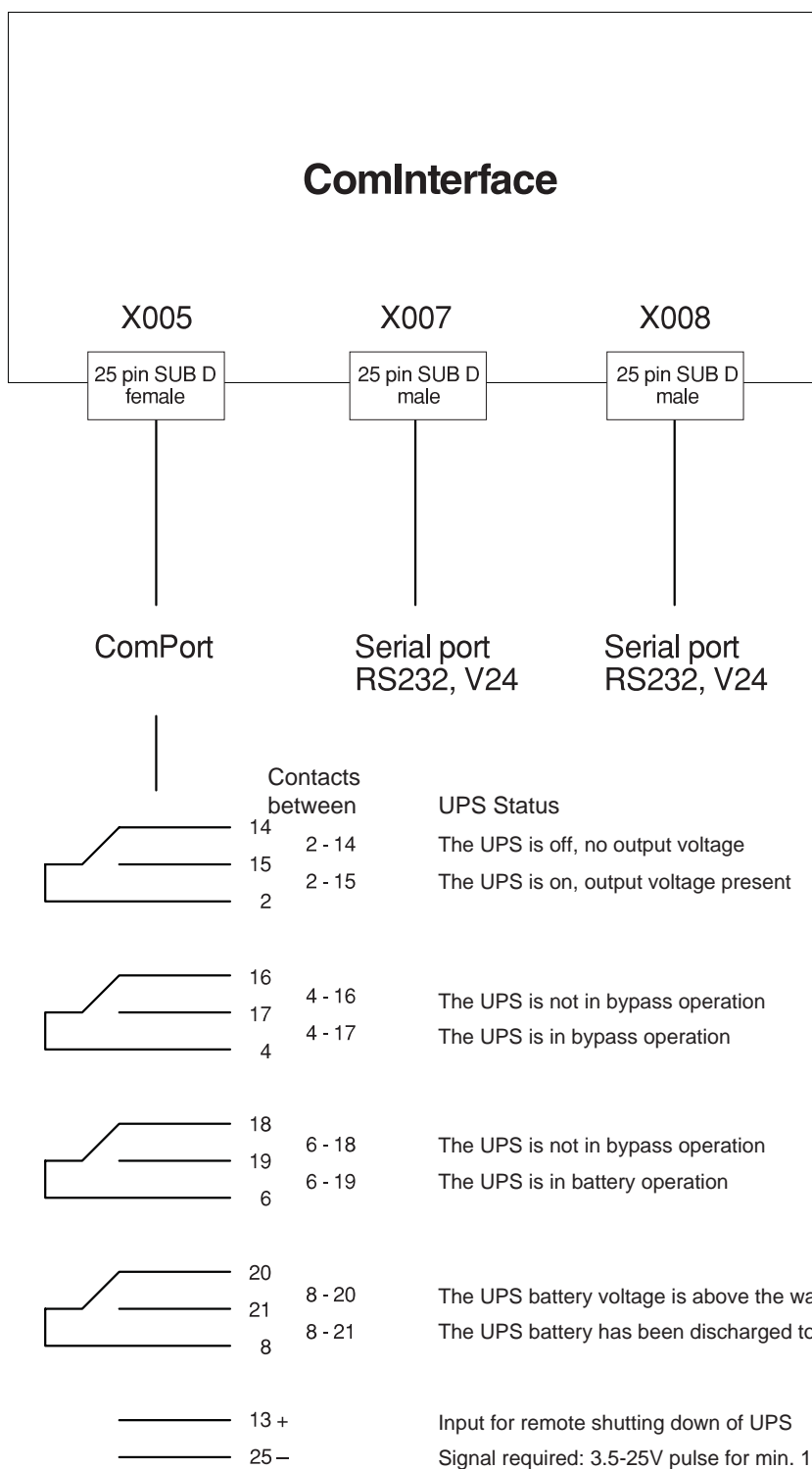
When switching Q003 from from “OFF” to “ON” the auxiliary contact has to give a signal before Q003 is closed. When switching from “ON” to “OFF” the auxiliary contact has to be activated with max. 0.5 sec. delay.

#### X005, output relays:

The battery operation signal is 30 secs. delayed, but inhibited during battery tests. The common fault relay is delayed. Standard factory setting is 10 secs. but other periods can be programmed as described in 6.3.

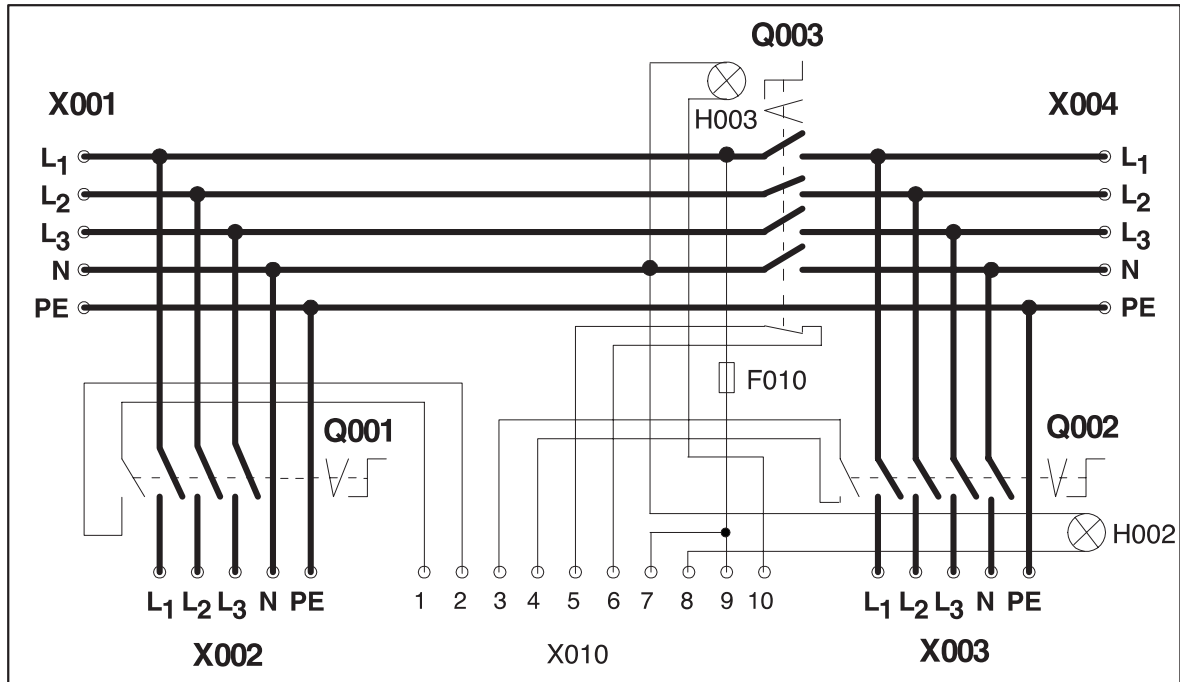
Same phase as power source for the output relays is mandatory for voltages above 170V.

## 15.3 Communication Interface



Relay contacts rating: Max. 42V AC/60V DC  
min. 0.05A, max. 0.5A

## 15.4 Service Bypass Panel

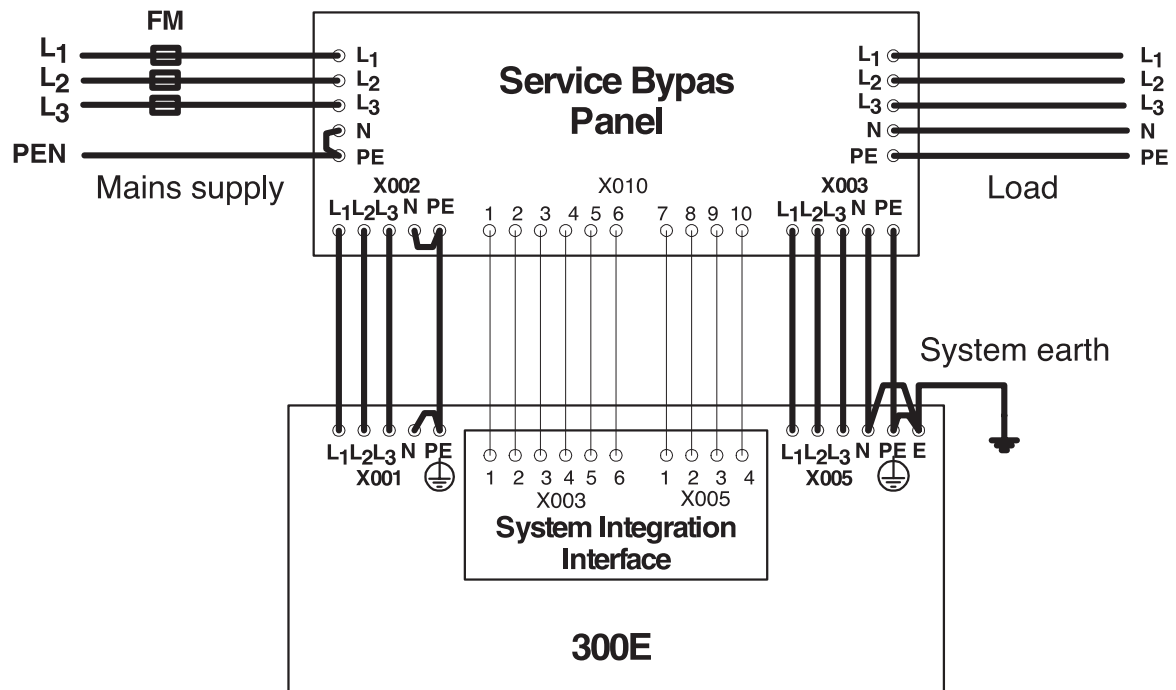


X001 Mains input supply  
 X002 UPS input  
 X003 UPS output  
 X004 System output

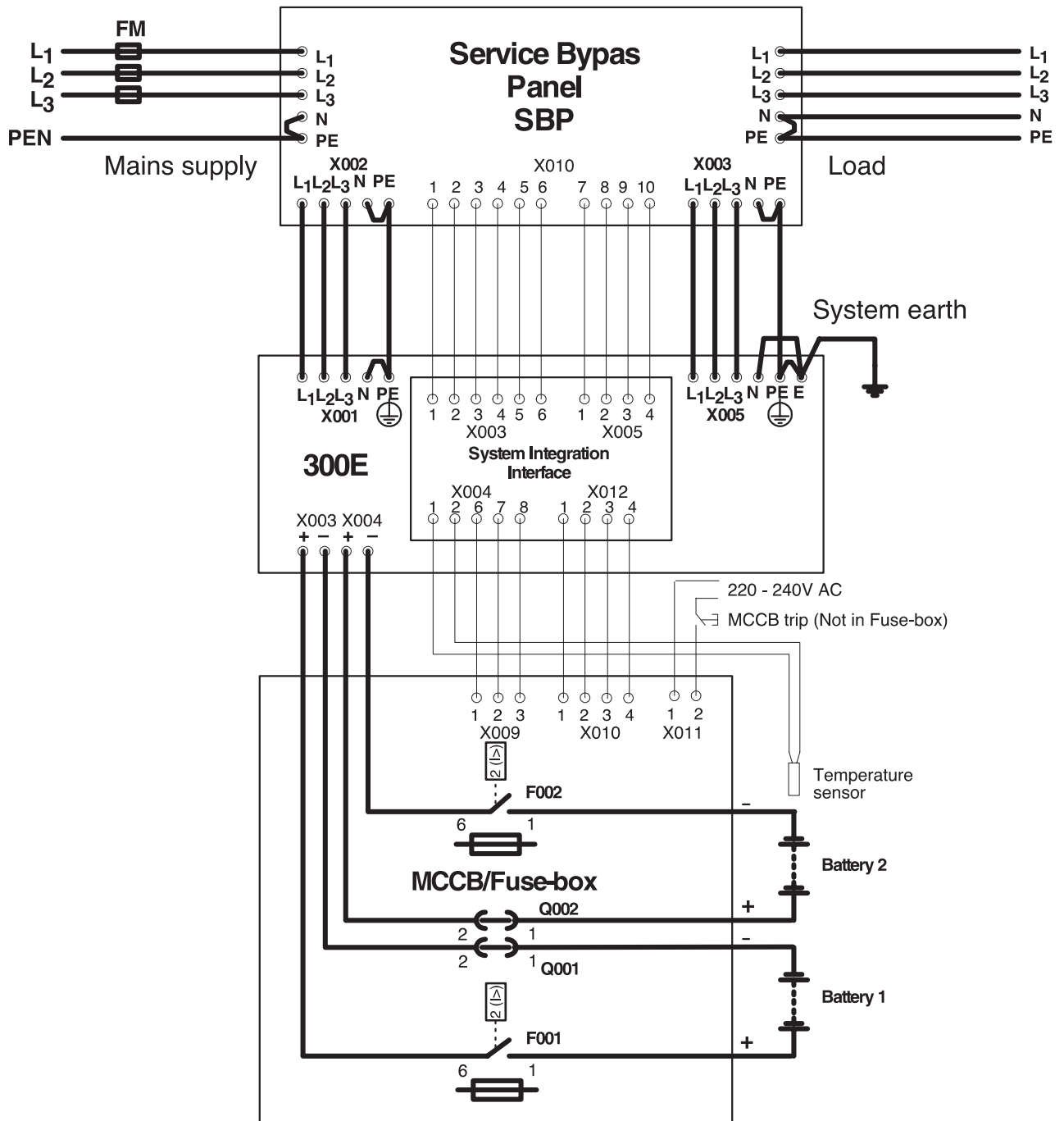
Q001 UPS input switch  
 Q002 UPS output switch  
 Q003 System bypass switch

H002 Green lamp, 'OK for operating Q002'  
 H003 Green lamp, 'OK for operating Q003'

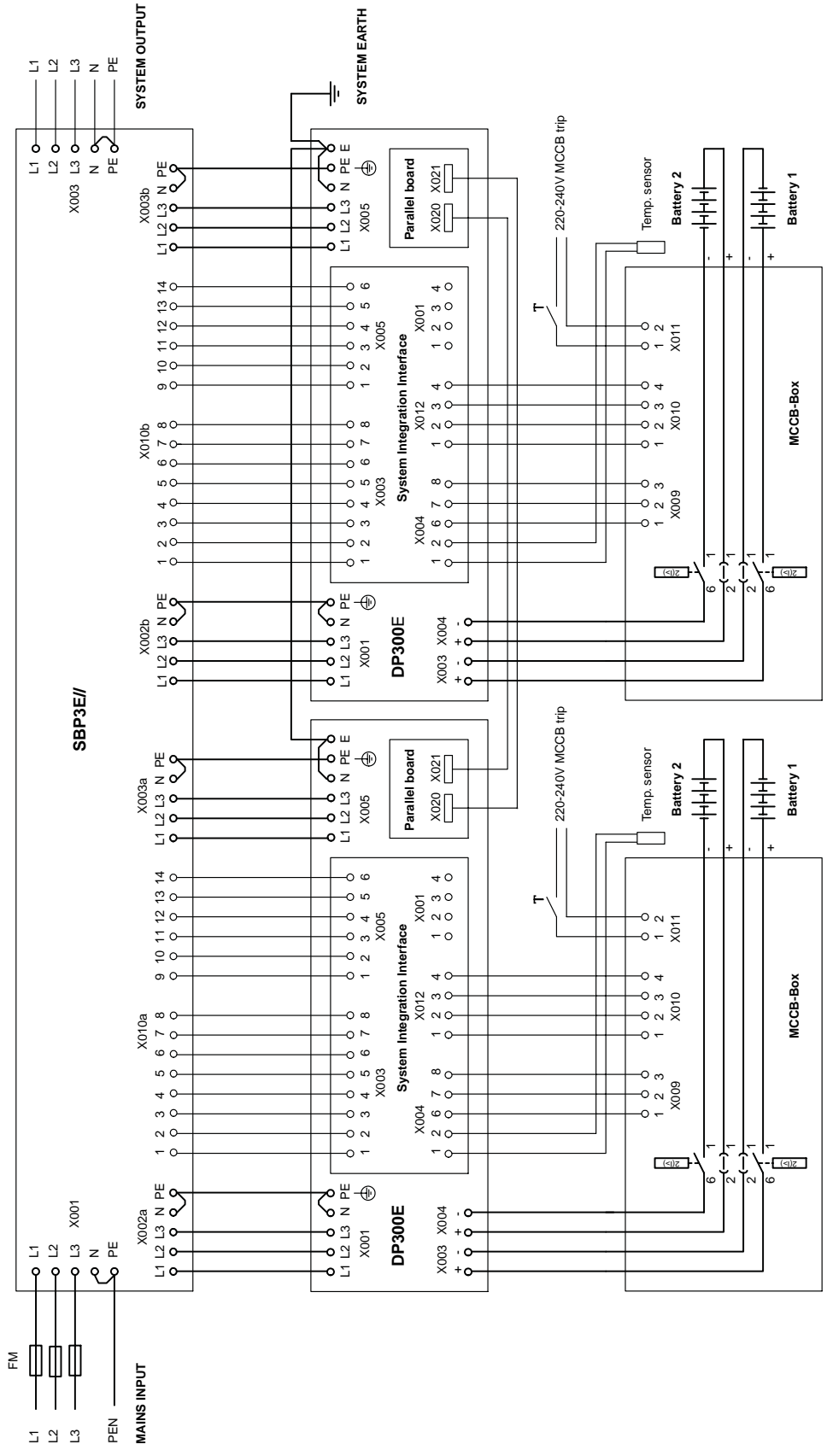
## 15.5 DP300E with Service Bypass Panel



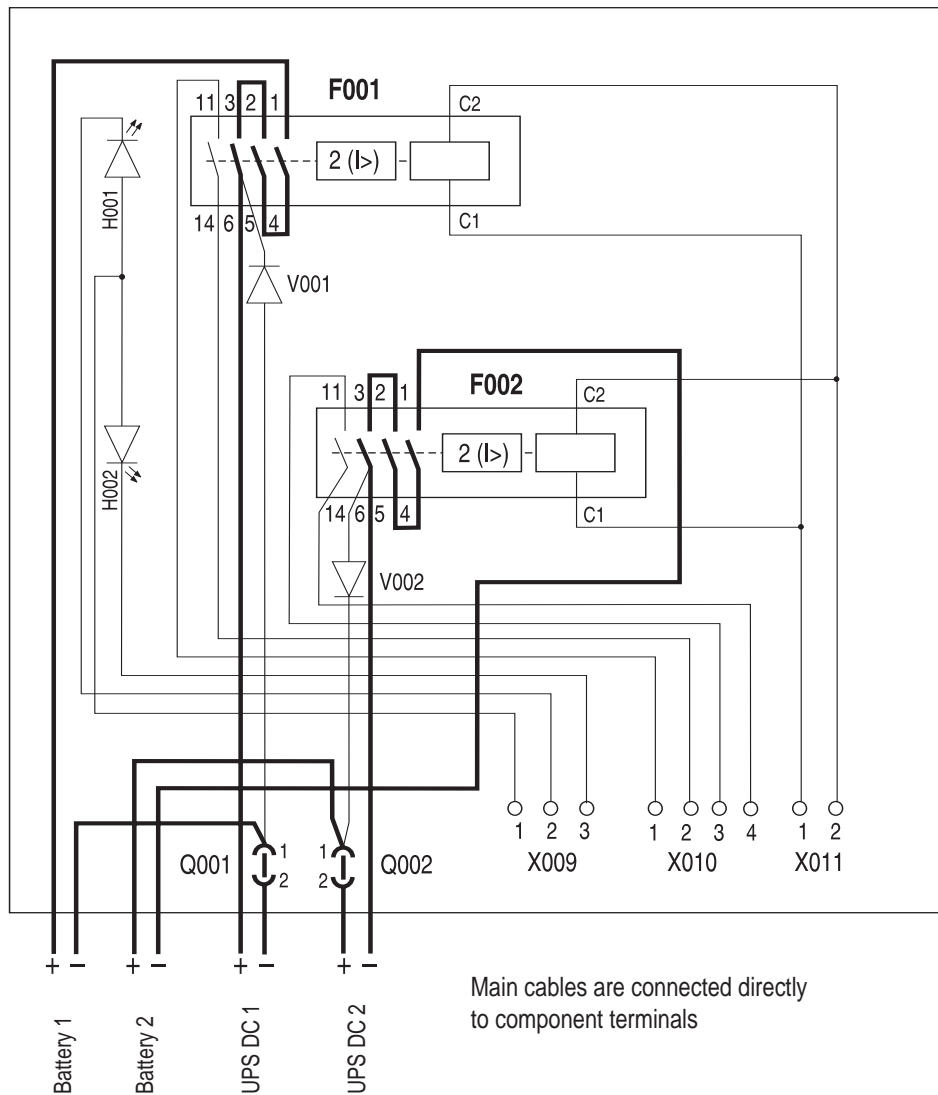
# 15.6 DP300E with external Battery via MCCB/Fuse-box



# 15.7 Parallel DP300E's with SBP and external Batteries via MCCB-Boxes



## 15.8 MCCB-box

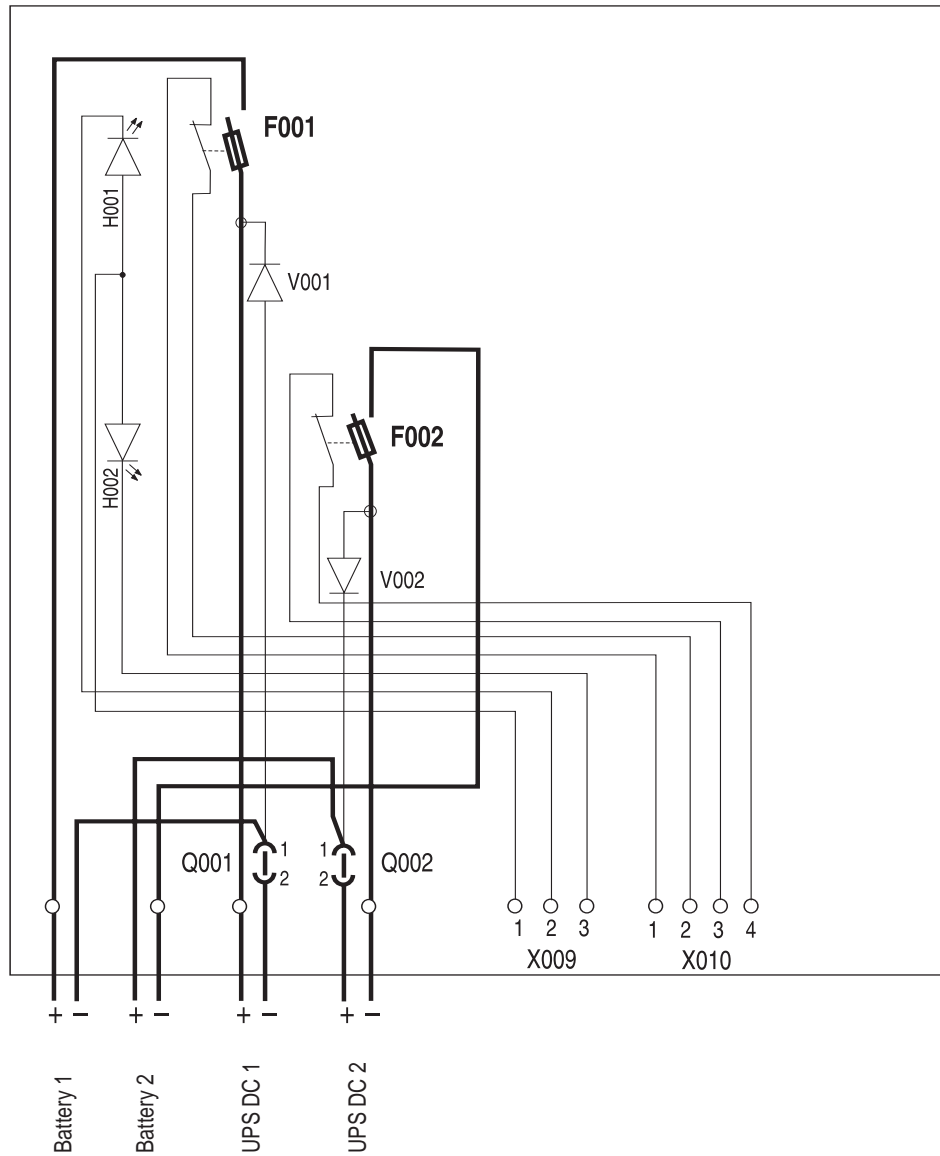


X009 LED signal from UPS “OK for operating corresponding MCCB”

X010 MCCB position signals for UPS

X011 Trip for emergency stop (220 - 240V AC)

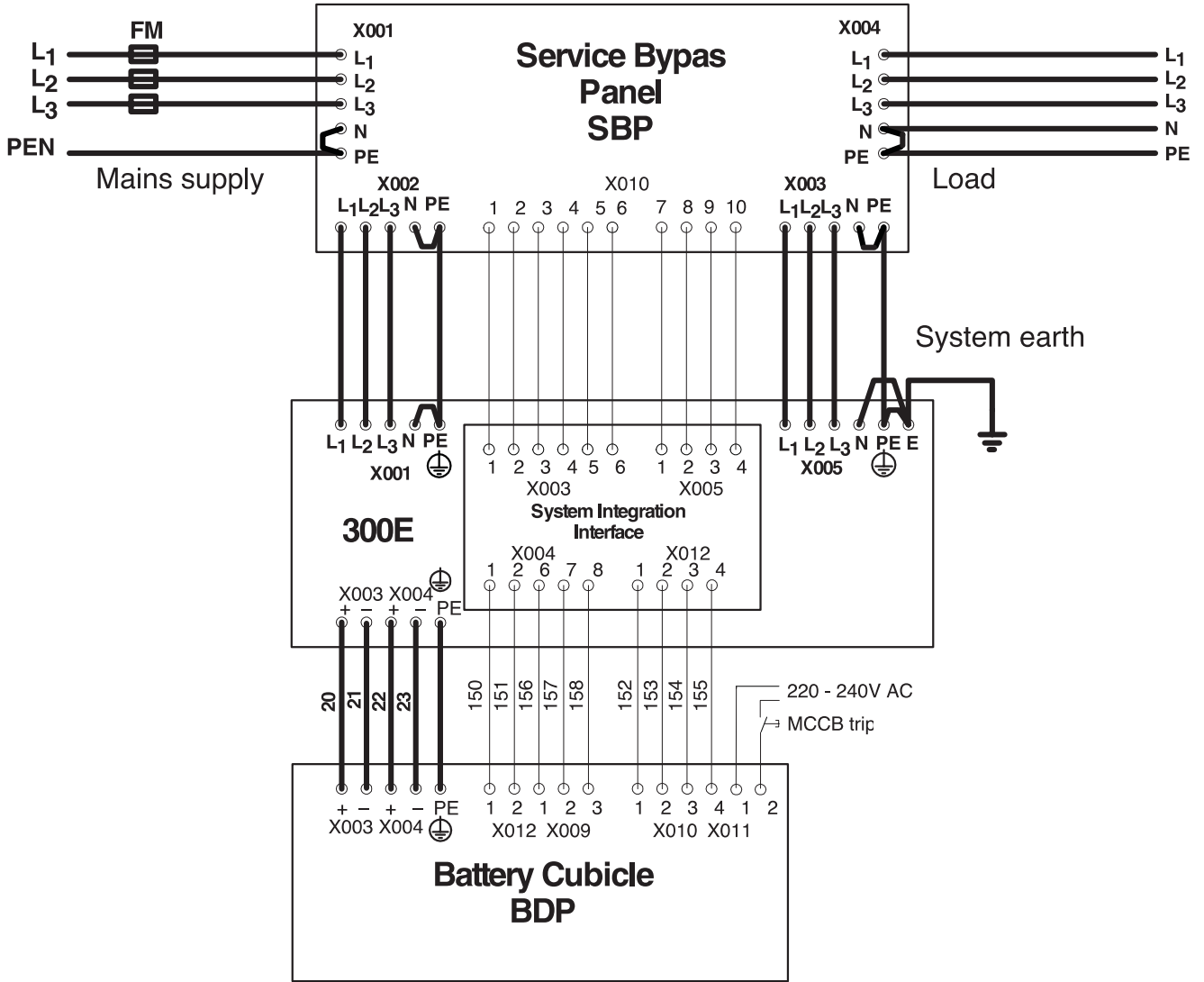
## 15.9 Fuse-box



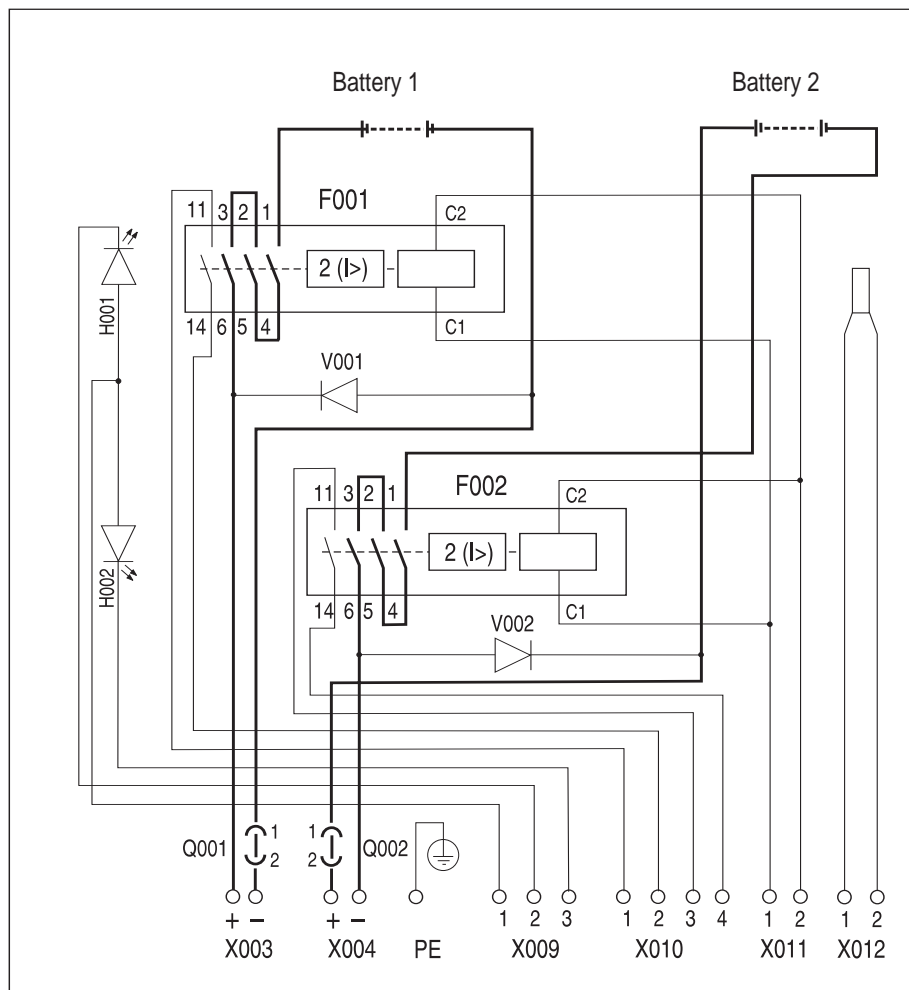
X009 LED signal from UPS “OK for operating corresponding fuse breaker”

X010 Released fuse signal for UPS

# 15.10 DP300E with separate Battery Cubicle

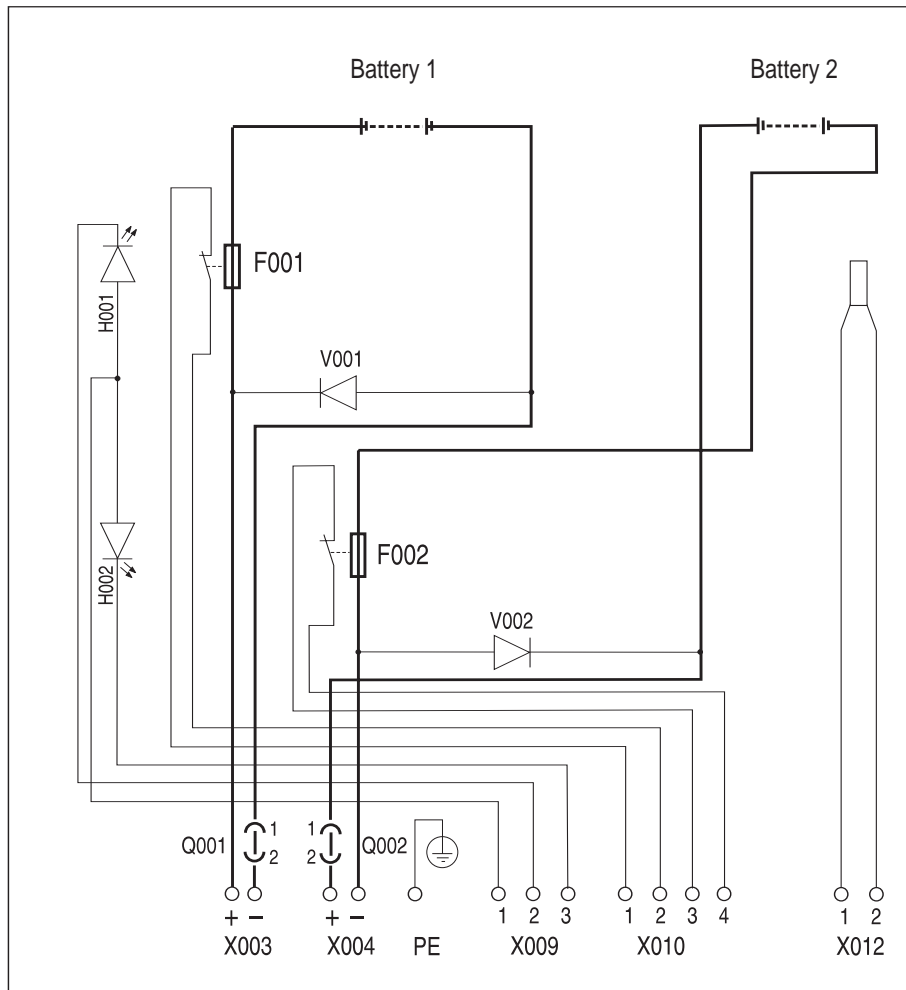


## 15.11 Battery Cubicle with MCCBs



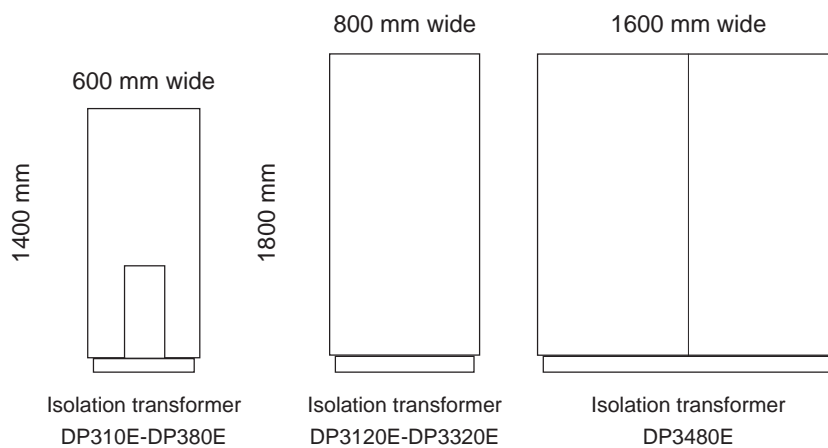
- X003 Battery 1 supply for UPS
- X004 Battery 2 supply for UPS
- PE Protective earth
- X009 LED signal from UPS "OK for operating corresponding MCCB"
- X010 MCCB position signals for UPS
- X011 Trip for emergency stop (220 - 240V AC)
- X012 Temperature compensation of charging voltage

## 15.12 Battery Cubicle with Fuses



- X003 Battery 1 supply for UPS
- X004 Battery 2 supply for UPS
- PE Protective earth
- X009 LED signal from UPS "OK for operating the corresponding fuse breaker"
- X010 Released fuse signal for UPS
- X012 Temperature compensation of charging voltage

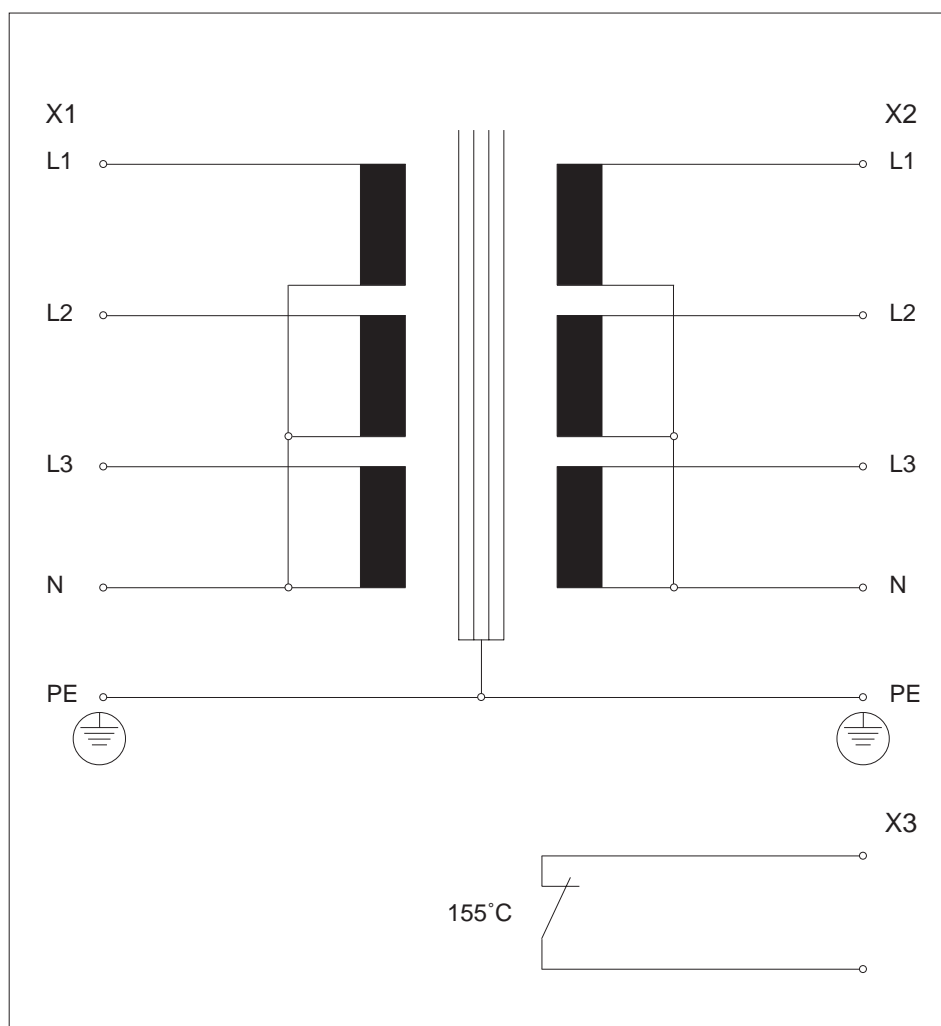
## 15.13 Isolation transformer module



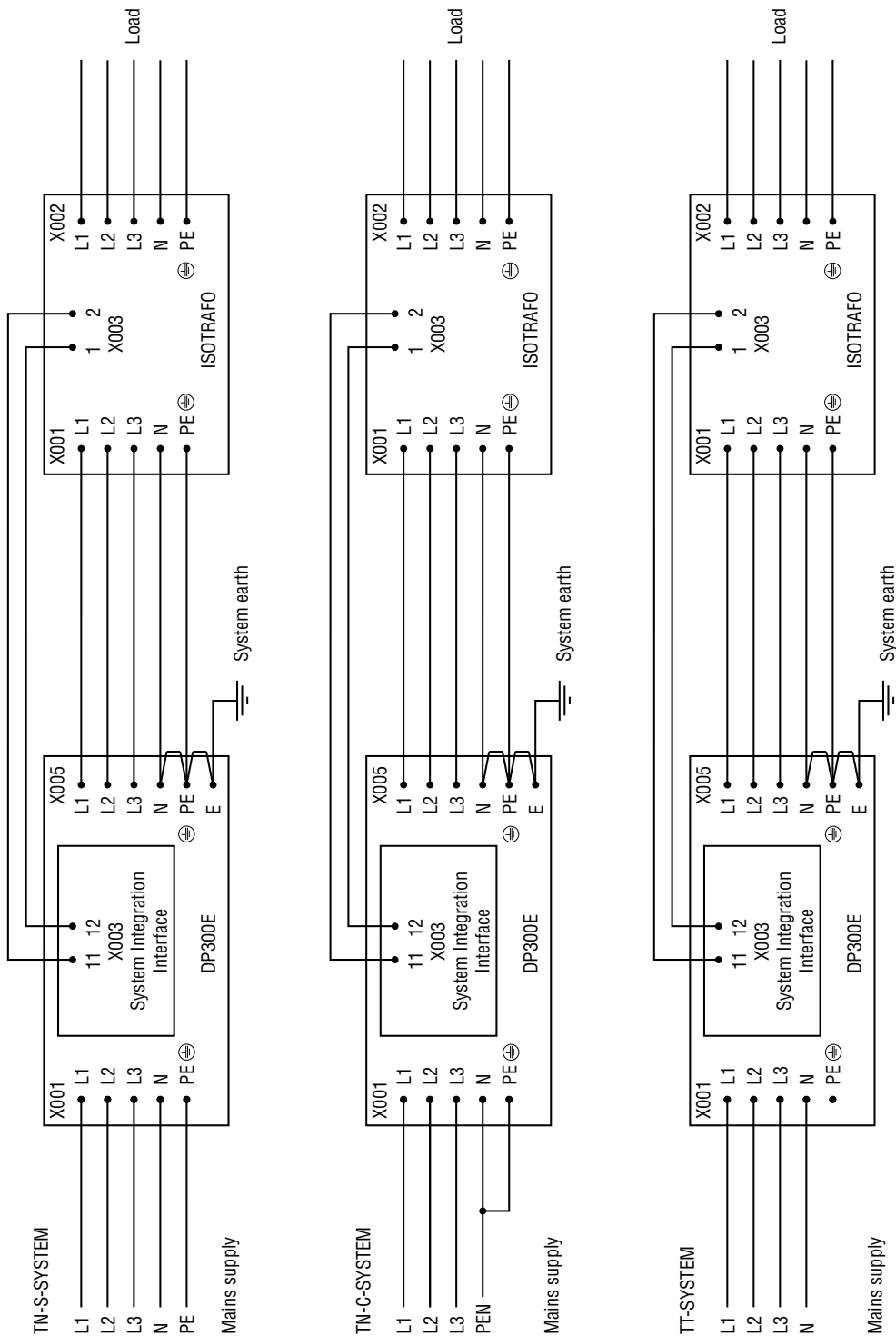
System	Height	Width	Depth	Weight
DP310E	1400	600	800	190
DP320E	1400	600	800	250
DP340E	1400	600	800	335
DP360/380E	1400	600	800	630
DP3120E	1800	800	800	790 <sup>*)</sup>
DP3160E	1800	800	800	950 <sup>*)</sup>
DP3240E	1800	800	800	1240 <sup>*)</sup>
DP3320E	1800	800	800	1470 <sup>*)</sup>
DP3480E	1800	1600	800	1950 <sup>*)</sup>

\*<sup>\*)</sup> Estimated weight.

## 15.14 Yy0 Isolation transformer module, diagram



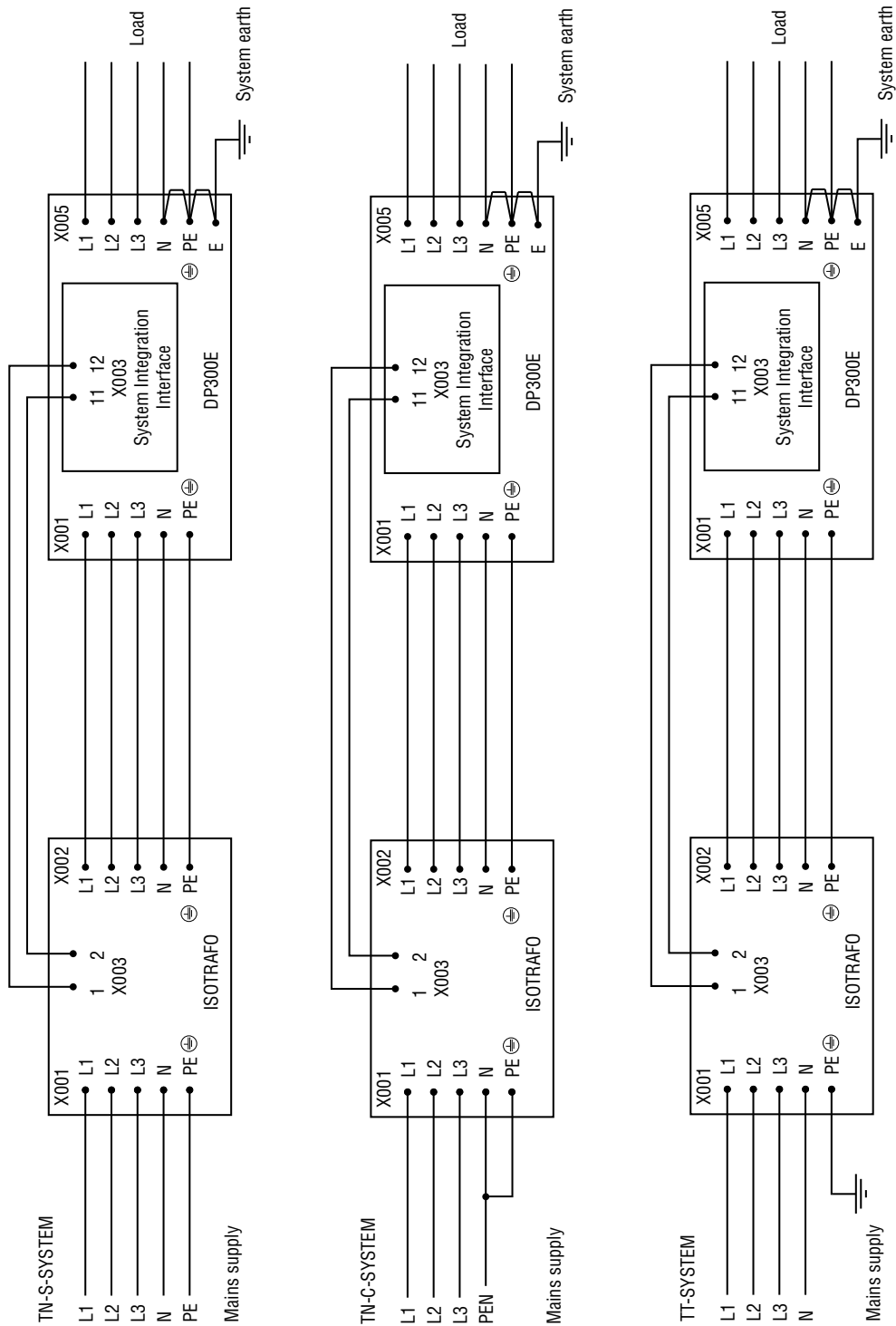
# 15.15 DP300E with external Yy0 isolation transformer at output



## Warning!

The Yy0 isolation transformer ensures galvanic isolation between the mains supply and the load. When bypassing the isolation transformer, the load will lose the galvanic isolation from mains supply.

# 15.16 DP300E with external Yy0 isolation transformer at input



### Warning!

The Yy0 isolation transformer ensures galvanic isolation between the mains supply and the load. When bypassing the isolation transformer, the load will lose the galvanic isolation from mains supply.

## 16. How to contact APC

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**AMERICAN POWER CONVERSION**

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(401) 789-0204 - Worldwide

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PowerFax™ (800) 347 - FAXX  
APC Web site: [www.apcc.com](http://www.apcc.com)

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Homepage: [www.silcongroup.com](http://www.silcongroup.com)

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