



Mains Distribution Guide

V31 – Q1 2025

For any queries, please contact hiredesk@tsllighting.com



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e-Contents

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the links below will allow you to quickly jump to
information about a specific unit.

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● 165			

Naming convention

TSL distros are named in a manner that provides some information about the input and output capabilities of the unit. Each name consists of 3 (or occasionally 4) characters.

x



Input phasing

"1" - Single phase
"3" - Three phase

y



Input type

"1" - 16A
"3" - 32A
"6" - 63A
"12" - 125A
"P" - Powerlock

z



Counter

Used simply to denote which variant of the product line

Styles

TSL distros are categorised into one of four styles:

1. **Rubber box:** A small, free-standing unit with a rubber based exterior and (often) a handle on top, suitable for outdoor use.
2. **HDPE:** A slightly larger unit constructed of hardwearing plastic with integrated side handles.
3. **Rack mount:** Suitable for mounting in standard sized 19-inch rack unit enclosures.
4. **Flightcase:** A complete unit, permanently installed into a single flight case; often the largest units in our range.

Single Phase



Type 111

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	16A / 1	1	-
Output:	13A / 1	14	30mA 16A C-type RCBO x1
Through:	16A / 1	1	-
Notes:	-		



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Type 112

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	16A / 1	1	-
Output:	13A / 1	6	-
Through:	16A / 1	1	-
Notes:	-		



Type 113

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	16A / 1	1	-
Output:	16A / 1	4	-
Through:	-	-	-
Notes:	-		



Type 114

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	True1	1	-
Output:	13A / 1	8	-
Through:	True1	-	-
Notes:	-		



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Type 115

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	True1	1	-
Output:	13A / 1	8	30mA 16A C-Type RCBO x1
Through:	True1	-	-
Notes:	-		



Type 132

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 1	1	-
Output:	16A / 1	8	30mA 16A C-type RCBO x8
Through:	-	-	-
Notes:	-		



Type 133

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 1	1	30mA 32A C-type RCBO
Output:	13A / 1	14	-
Through:	-	-	-
Notes:	-		



Type 134

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 1	1	30mA 32A C-type RCBO
Output:	16A / 1	6	16A C-TYPE MCB x6
Through:	-	-	-
Notes:	-		



Type 135

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 1	1	-
Output:	16A / 1	4	C-Type 16A MCB x2
Through:	-	-	-
Notes:	-		



Type 136

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 1	1	-
Output:	16A / 1	4	16A C-Type MCB x4
Through:	-	-	-
Notes:	-		



Type 137

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 1	1	32A C-Type 30mA RCBO
Output:	16A / 1	4	16A C-Type MCB x4
Through:	-	-	-
Notes:	-		



Type 138

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 1	1	-
Output:	32A / 1	1	32A C-Type 30mA RCBO
Through:	-	-	-
Notes:	-		



Type 139

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 1	1	-
Output:	True1	8	16A B-Type 30mA RCBO x8
Through:	-	-	-
Notes:	-		



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Type 161

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 1	1	-
Output:	32A / 1	2	x2
	16A / 1	6	30mA 16A C-type RCBO x6
Through:	63A / 1	1	-
Notes:	-		



Type 162

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 1	1	63A D-Type MCB & 30mA RCD
Output:	16A / 1	8	16A C-Type MCB x8
Through:	-	-	-
Notes:	-		



Type 163

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 1	1	63A C-Type MCB
Output:	63A / 1	1	63A C-Type 30mA RCBO x2
	32A / 1	2	32A C-Type 30mA RCBO x2
	16A / 1	4	16A C-Type 30mA RCBO x4
Through:	-	-	-
Notes:	-		



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Type 164

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 1	1	63A C-Type MCB
Output:	Socapex	2 (Paired)	16A C-Type 30ma RCBO x6
Through:	-	-	-
Notes:	-		



Type 165

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 1	1	-
Output:	32A / 1	2	32A C-Type 30ma RCBO x2
Through:	-	-	-
Notes:	-		





Three Phase





Type 312

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	16A / 3	1	-
Output:	16A / 3	1	100mA RCD
Notes:			



Type 331

Style: Rubber box / HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	32A / 1	3	32A C-type 30mA RCBO x3
Through:	32A / 3	1	-
Notes:	1 outlet per phase, stickered on the individual sockets		



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Type 332

Style: Rubber box / HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	16A / 1	6	16A C-Type 30mA RCBO x6
Notes:	Sockets are phased L1, L2, L3 (x2) and stickered accordingly		



Type 333

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	32A / 1	3	32A C-type 30mA RCBO x3
Notes:	1 output per phase, stickered on breakers		



Type 334

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	16A / 1	6	16A C-type 30mA RCBO x6
Through:	32A / 3	1	-



Type 335

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	32A C-Type MCB
Output:	16A / 1	6	16A C-Type RCBO x6
Through:	32A / 3	1	-



Type 336

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	16A / 3 (4 pin)	2	16A C-Type MCB
Notes:	Motor Distro		



Type 336b

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	16A / 3 (4 pin)	4	tbc
Notes:	Motor Distro. Features phase indication LEDs and the ability to phase reverse by rotating/swapping pins in the input connector		



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Type 337

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	16A / 3	2	16A C-type 30mA RCBO x2
Notes:			



Type 338

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	32A / 3	1	32A C-type MCB & Variable/ Switchable RCD
Notes:			



Type 338a

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	32A / 3	1	30mA C-Type RCBO
Notes:			



Type 339

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	32A / 3	1	-
Output:	True1	6	16A B-Type 30mA RCBO x6
Notes:			



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Type 361

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	63A / 1	3	C-Type MCB & Variable RCD x3
Through:	63A / 3	1	-
Notes:	1 outlet per phase		



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Type 362

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	32A / 1	6	30mA 32A C-type RCBO
Notes:	2 outputs per phase, stickered accordingly on the sockets. This distro also features an earthing point		



Type 364

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	63A / 3	1	63A / 3 Variable and Switchable RCBO



Type 365

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	63A / 3	1	30mA RCD



Type 366

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	63A / 3	2	63A C-Type MCB and 30mA RCD



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Type 367

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	63A C-Type MCB
Output:	32A / 1	3	32A C-Type 30mA RCBO x3
	16A / 1	12	16A C-Type 30mA DP RCBO x12
Notes:	Phasing is stickered on sockets, with 1x 32A/1 and 4x 16A per phase		



Type 367a

Style: HDPE

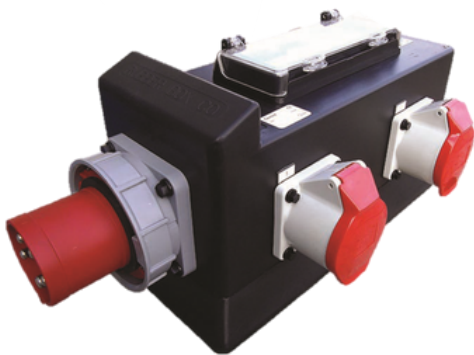
	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	63A C-Type MCB
Output:	32A / 1	3	32A C-Type 30mA RCBO x3
	True1	12	16A C-Type 30mA DP RCBO x12
Through:	63A/3		
Notes:	Phasing is stickered on sockets, with 1x 32A/1 and 4x True1 per phase Features an earthing point		



Type 368

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	32A / 3	2	30mA 3-phase RCBO x2



Type 369

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	63A / 1	3	30mA RCD x3 & 63A D-Type MCB x3



Type 3610

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	63A / 1	3	30mA RCD x3 & 63A C-Type MCB x3
Through:	63A / 3	1	-



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Type 3612

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	
Output:	32A / 3	2	32A C-Type MCB x2
Notes:	Cable Input		



Type 3613

Style: Rubber Box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	
Output:	32A / 3	3	32A C-Type MCB with 30mA RCD x3
Notes:	This Unit also has an external Earthing point		



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Type 3121

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	125A / 3	1	-
Output:	63A / 3	2	63A C-Type MCB & Variable/ Switchable RCD x2
	32A / 3	2	32A C-Type MCB & Variable/ Switchable RCD x2
Through:	125A / 3	1	-



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Type 3122

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	125A / 3	1	-
Output:	125A / 3	1	125a C-Type MCB & Variable/ Switchable RCD



Type 3123

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	125A / 3	1	-
Output:	63A / 3	2	Variable RCBO x2



Type 3P1

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	-
Output:	125A / 3	2	C-Type MCB & variable RCD x2
	63A / 3	1	C-Type MCB & variable RCD x1
	32A / 3	2	C-Type MCB & variable RCD x2
Through:	Powerlock	1	-



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Type 3P4

Style: Flightcase

	<u>Connection/ Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	Variable MCCB
Output:	Powerlock	2	200A Variable MCCB with adjustable and switchable Earth Leakage x2
	Powerlock	1	400A Variable MCCB with adjustable and switchable Earth Leakage x1
	63A / 3	3	63A C-Type MCB & Variable/ Switchable RCD x3
	32A / 1	1	32A C-Type 30mA DP RCBO
	16A / 1	1	16A C-Type 30mA DP RCBO
	13A	1	13A C-Type 30mA DP RCBO
Notes:	Phasing: 13A L1, 16A L2, 32A L3 Also Features 2x USB Sockets for Charging		

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Type 3P4



Type 3P6

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	Variable MCCB
Output:	Powerlock	2	250A Variable MCCB with adjustable and switchable Earth Leakage x2
	Powerlock	1	400A Variable MCCB with adjustable and switchable Earth Leakage x1
	32A / 3	1	32A/3 MCB 30mA RCBO
Notes:	Utility Power 1x 32A/1, 1, 13A/1 and 1x True1, all protected with a 30mA RCBO per outlet		

Type 3P6



Type 3P6a

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	Variable MCCB
Output:	Powerlock	2	200A Variable MCCB with adjustable and switchable Earth Leakage x2
	Powerlock	1	400A Variable MCCB with adjustable and switchable Earth Leakage x1
	32A / 3	1	32A/3 MCB 30mA RCBO
Notes:	Utility Power 1x 32A/1, 1x 16A/1 and 1x 13A/1, all protected with a 30mA RCBO per outlet		

Type 3P6a



Type 3P7

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	-
Output:	Powerlock	2	400A MCCB with overall variable RCD
Through:	Powerlock	1	-



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Type 3P8

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	-
Output:	32A / 3	12	C-Type MCB & Variable RCD Per outlet
	63A / 3	1	C-Type MCB & Variable RCD Per outlet
Through:	Powerlock	1	-



Hot Power Soca





Type HP18

Style: Rackmount

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	Socapex	3	30mA 16A C-type RCBO
	True1	1	30mA 16A C-type RCBO x1
Through:	63A / 3	1	-
Notes:	Phasing: 1 Socapex per phase Labelled L1,L2,L3		



Type HP18a

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	Socapex	3	30mA 16A C-type RCBO
	True1	18	30mA 16A C-type RCBO x18
Through:	63A / 3	1	-
Notes:	Phasing: 1 Socapex per phase Labelled L1,L2,L3 Built in metering		



Type HP18b

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	63A/3 MCB
Output:	Socapex	3	16A C-Type 30mA RCBO x18
Through:	63A / 3	1	63A MCB
Notes:	This unit features an earthing point and has 1 Socapex per phase		



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Type HP18c

Style: Rubber box

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	63A/3 C-Type MCB & Variable RCD
Output:	Socapex	3	16A C-Type 30mA RCBO x 18
	16A / 1	18	
Through:	63A / 3	1	-
Notes:	The Socapex and 16A outputs are paired across this output. Phasing, of 1 Socapex and 6x 16A/1 per phase, is indicated by stickers on the outlets		



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Type HP18d

Style: Rackmount

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	-
Output:	Socapex	3	30mA RCD per Socapex & C-Type MCB x18
Through:	63A / 3	1	-
Notes:	1 phase per Socapex, labelled and additional 16A and 13A utility power protected by an overall C-Type MCB		



Type HP18e

Style: HDPE

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	63A / 3	1	63A/3 C-Type MCB & Variable RCD
Output:	Socapex	3	30mA 16A C-type RCBO
	True1	18	30mA 16A C-type RCBO x18
Through:	63A / 3	1	-
Notes:	Phasing: 1 Socapex per phase Labelled L1,L2,L3 Socapex and True1 outputs are paired		



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Type HP36b

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	-
Output:	Socapex	6	16A C-Type 30mA RCBO x36
	16A / 1	1	16A C-Type 30mA RCBO x6
	63A / 3	1	63A MCB
Notes:	Utility power 1x 63A/3 and 1x 16A/1 protected with 63A/3 MCB and 16A RCBO respectively Phasing 2 Socapex per phase, labelled on outputs		



Type HP36c

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	400A MCCB
Output:	Socapex	6	C-Type 30mA RCBO x36
Through:	Powerlock	1	-
Notes:	Utility power 1x 63A/3 with Variable Earth Leakage MCB and 1x 16A/1 with 30mA RCBO Phasing This unit has 2 Socapex per phase, abelled on the outlets		



Type HP36d

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	400A MCCB
Output:	Socapex	6	C-Type 30mA RCBO x36
Through:	Powerlock	1	-
Notes:	Utility power 1x 63A/3 with Variable Earth Leakage MCB Phasing This unit has 2 Socapex per phase, abelled on the outlets		



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Type HP42

Style: Flightcase

	<u>Connection</u> <u>/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	400A MCCB
Output:	Socapex	7	16a C-Type 30ma RCBO x42
	True1	6	16a C-Type 30ma RCBO x6 Paired with soca 7
	16A / 1	1	16a C-Type 30ma RCBO x1
	32A / 3	1	32A D-Type MCB Variable/Switchable RCD
	63A / 3	1	63A C-Type MCB Variable/Switchable RCD
Through:	Powerlock	1	200A MCCB Variable/Switchable RCD
Notes:	Phasing L1: 6x True1 & 1x 16A labelled 1-7, Socapex 1 & 4 L2: Socapex 2 & 5 L3: Socapex 3 & 6 Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

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Type HP42



Type HP42a

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	-
Output:	Socapex	7	30mA 16A C-type RCBO
Through:	Powerlock	1	-
Notes:	Utility Power 1x 32A/3, 6x 16A/1 and 1x13A/1 This unit is wired with 2 Socapex per phase. The utility Socapex and single phase utility outputs are also on L1		



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Type HP72

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	400A MCCB
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	True1	6	16A C-Type 30mA RCBO x6
	32A / 3	1	32A D-Type MCB with variable ELR
	63A / 3	1	63A C-Type MCB with variable ELR
Through:	Powerlock	1	250A MCCB with variable ELR
Notes:	This unit features an Earthing point is wired with 1 Socapex per phase (x4) Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

Type HP72



Type HP72a

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	400A MCCB with variable ELR
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	True1	6	16A C-Type 30mA RCBO x6
	32A / 3	1	32A C-Type MCB
	63A / 3	1	63A C-Type RCD with variable ELR
Through:	Powerlock	1	250A MCCB
Notes:	This unit features an Earthing point is wired with 1 Socapex per phase (x4) Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

Type HP72a



Type HP72b

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	400A MCCB with variable ELR
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	16a /1	6	16A C-Type 30mA RCBO x6
	32A / 3	1	32A C-Type MCB
	63A / 3	1	63A C-Type MCB
Through:	Powerlock	1	-
Notes:	This unit features an Earthing point is wired with 1 Socapex per phase (x4) Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

Type HP72b



Type HP72c

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	-
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	16A / 1	7	16A C-Type 30mA RCBO x7
	Schuko	1	16A C-Type 30mA RCBO x1
	13A	1	13A C-Type 30mA RCBO x1

Type HP72c

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
	13A	1	13A C-Type 30mA RCBO x1
	63A / 3	1	63a C-Type MCB & Variable/ Switchable RCD
	32A / 3	1	32a C-Type MCB & Variable/ Switchable RCD
Through:	Powerlock	1	-
Notes:	Phasing: L1: Outputs: 1,4,9 (All 16a) L2: Outputs: 2 (Schuko), 5 (16a), 8 (16a) L3: Outputs, 3 (13a), 6 (16a), 9 (16a) Socapex outputs 4 per phase Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

Type HP72c



Type HP72e

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	400A MCCB with variable ELR
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	True1	6	16A C-Type 30mA RCBO x6
	32A / 3	1	32A C-Type MCB
	63A / 3	1	63A C-Type RCD with variable ELR
Through:	Powerlock	1	250A MCCB
Notes:	This unit features an Earthing point is wired with 1 Socapex per phase (x4) Also Features 2x USB Sockets and "smart", real-time metering of voltage & current for each circuit on the unit		

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Type HP72e



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Hybrid Dimmer-Distro



Type HPD24

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	125A/3 C-Type MCB
Output:	Socapex	8 (24 channels Paired)	Each Dimmer: 63A/3 C-Type MCB Each End Circuits: 16A C-Type 30mA RCBO
	16A / 1	1	16A C-Type 30mA RCBO

Type HPD24

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
	32A / 1	1	16A C-Type 30mA RCBO
	32A / 3	1	16A C-Type 30mA RCBO
Through:			
Notes:	Phasing is marked on the dimmers and goes incrementally i.e.. Ch 1 = L1, Ch 2 = L2, Ch 3 = L3, Ch 4 = L1 The Socapex outputs are paired and the unit has an Earthing point. This unit has the ability for any channel to be hot or dimmed. Also Features 2x USB Sockets for Charging		

Type HPD24



Type HPD60

Style: Flightcase

	<u>Connection/Type</u>	<u>Quantity</u>	<u>Protection</u>
Input:	Powerlock	1	Switched
Output:	Socapex	16	Patchable
	16A / 1	4	
	16A / 1	1	16A C-Type 30mA RCBO
	32A / 1	1	32A C-Type 30mA RCBO

Type HPD60

Style: Flightcase

	<u>Quantity</u>	<u>Protection</u>
	4	Patchable
	1	32A C-Type 30mA RCBO
	1	32A C-Type 30mA RCBO
Patchable Dimmers	4	Each Dimmer: 63A/3 C-Type MCB Each End Circuits: 16A C-Type 30mA RCBO
Patchable Hot	12	16A C-Type 30mA RCBO
Through:	1	Switched, with variable RCD
Notes:	This unit features an Earthing point and has the ability for any channel to be hot or dimmed with the Socapex and 4x 16A/1 outputs. Phasing is marked on the dimmers and goes incrementally i.e.. Ch 1 = L1, Ch 2 = L2, Ch 3 = L3, Ch 4 = L1 Patchable hot power is 4x L1 followed by 4x L2 and 4x L3	

Type HPD60



Reference Section





Mains Calculations

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

<u>Watts to Amps</u> <u>(at 230V)</u>				
<u>Watts</u>	<u>Amps</u>		<u>Watts</u>	<u>Amps</u>
5	0.02		50	0.22
10	0.04		100	0.43
15	0.07		500	2.17
20	0.09		1000	4.35
25	0.11		2000	8.70

Mains Calculations

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

<u>Amps to Watts</u> <u>(at 230V).</u>	
<u>Amps</u>	<u>Watts</u>
13	2990
16	3680
32	7360
63	14,490
125	28,750

<u>Generator KVA Ratings</u> <u>(at 400V, 3-Phase, 50Hz and</u> <u>0.8 power factor)</u>		
<u>kVA</u>	<u>kW</u>	<u>Amps</u>
100	80	144
150	120	217
200	160	289
300	240	433
400	320	577

Cable Guide

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

Mains Cable ratings – H07RN-F (based on max Amps in free air)		Cable colour coding	
Conductor cross-sectional area (mm ²)	Amps	1m	Brown
25	142	2m	Blue
35	162	3m	White
50	198	5m	Green
70	256	10m	Yellow
95	314	15m	Yellow & Green
120	365	20m	Red
150	422	25m	Red & Green
		30m	Red & Yellow
		40m	Grey
		50m	Grey & Yellow
		60m	Grey & Red

Cable Guide

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

<u>Connectors</u>	
	16A, 32A or 63A single phase (size dependent)
	16A 4-pin Motor cable (power)
	16A 4-pin Motor cable (signal)
	32A, 63A or 125A 3-phase (size dependent)
	Powerlock (in and out)
	Socapex (in and out)

Cable Guide

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

<u>Connectors</u>	
	Socapex (in and out)
	Powercon (in and out)
	True1 (in and out)

Variable RCDs

All standard variable RCDs will be set with the following settings. These devices are often show critical and should be checked by a suitable competent person(s) prior to energising

<u>Selec 900ELR</u>		
		<u>Rating of circuit</u>
		<u>125A, 400A & Higher</u>
RL1	RNG	550mA
	SV	300mA
	INS	OFF
	MOD	OFF
	LCH	OFF

Variable RCDs

All standard variable RCDs will be set with the following settings. These devices are often show critical and should be checked by a suitable competent person(s) prior to energising

<u>Selec 900ELR</u>			
TM1	TRP	0.1s	0.3s
	REC	0.1s	0.3s
	P.ON	0.5s	0.5s
Default Password: 753			

Variable RCDs

All standard variable RCDs will be set with the following settings. These devices are often show critical and should be checked by a suitable competent person(s) prior to energising

<u>Hobut RCR-V30/SES ELR600-2</u>			
	<u>Rating of circuit</u>		
	<u>32A</u>	<u>63A</u>	<u>125A, 400A & Higher</u>
Trip Current	100mA	100mA	300mA
Time Delay	150mS	150mS	250mS