

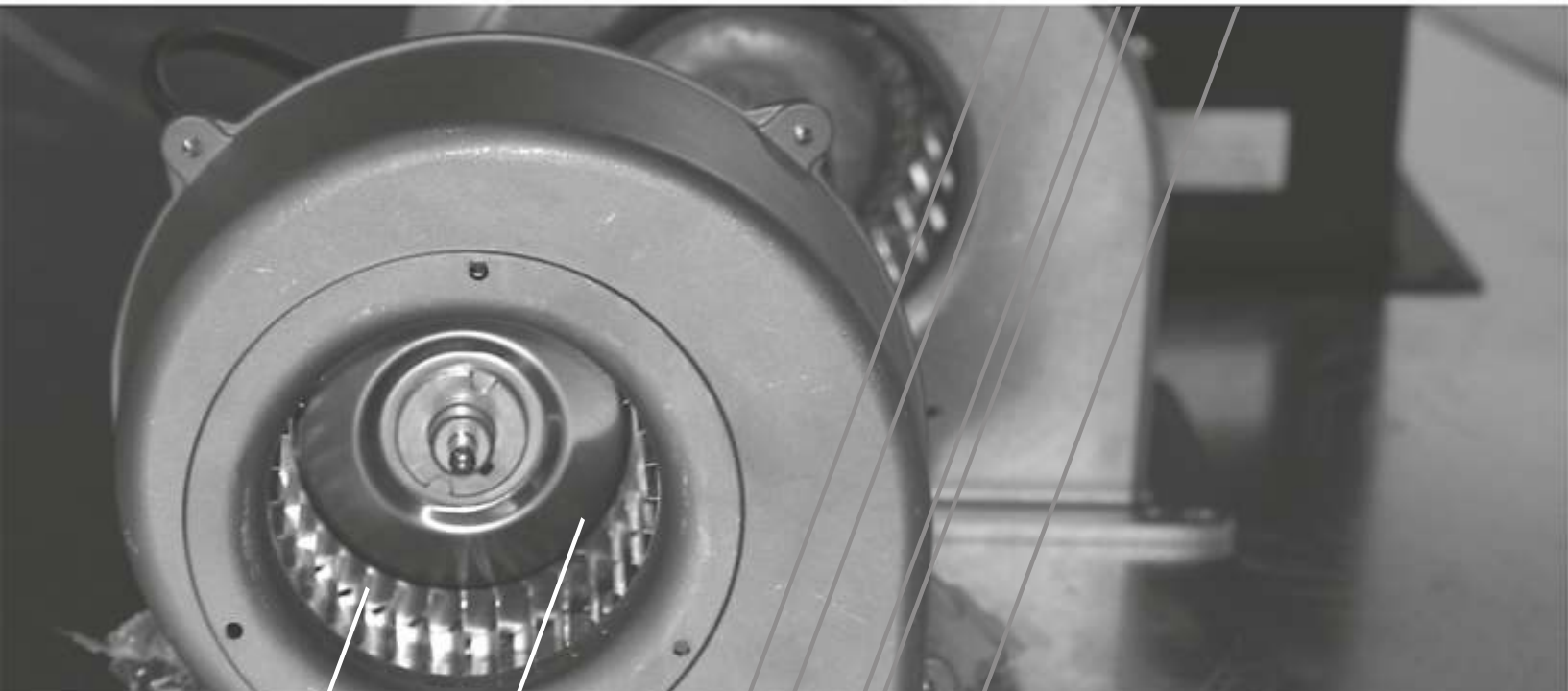


# POLE STAR

PRODUCTS LIMITED

ELECTRIC MOTORS, FANS & BLOWERS

## CARRIAGE & CONTACT



[www.psp.uk.com](http://www.psp.uk.com)

01526 399 711

# 6

## CARRIAGE & CONTACT

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# 6 DELIVERY CHARGES

## UK Domestic Parcel Rates (Parcelforce)

<b>Service 1</b>	Non guaranteed next day	<b>£ 8.50</b>
<b>Service 2</b>	Next working day by noon	<b>£ 16.99</b>
<b>Service 3</b>	Next working day by 10am	<b>£ 24.72</b>
<b>Service 4</b>	Next working day by 9am	<b>£ 41.20</b>
<b>Service 5</b>	Saturday delivery (Anytime)	<b>£ 26.78</b>
<b>Service 6</b>	Saturday delivery by 10am	<b>£ 36.38</b>
<b>Service 7</b>	Saturday delivery by 9am	<b>£ 44.80</b>



## Non UK Domestic Parcel Rates

<b>Service 8</b>	<b>Islands &amp; Scottish Highlands*</b>	<b>£ 16.48</b>
<b>Service 9</b>	<b>Northern Ireland 24</b>	<b>£ 20.00</b>
<b>Service 10</b>	<b>Northern Ireland 48</b>	<b>£ 15.00</b>
<b>Service 11</b>	<b>Southern Ireland by surface</b>	<b>£ 15.00</b>
<b>Service 12</b>	<b>Channel Islands</b>	<b>£ 18.93</b>
<b>Service 13</b>	<b>Isle of Man 24</b>	<b>£ 25.34</b>
<b>Service 14</b>	<b>Isle of Man 48</b>	<b>£ 16.99</b>
<b>SAMEDAY</b>	<b>Same day delivery/collection</b>	<b>£Call</b>

\* Highlands postcodes are: G83, G84, HS1-HS9, IV1-IV40, IV52-IV54, IV63, KA27-28, KW1-KW14, PA21-PA38, PH21-PH26 and are on a minimum 2 day service

**Maximum parcel weight - 30kg**

## Convenient collect

Should you require an alternative delivery address we are able to delivery to your local Post Office for you to collect when suits you best.

## Key points

- 10,500 collection points
- 10,193 open Saturdays
- 3,707 open Sundays
- 93% people live within 1 mile of your local Post Office

## International Parcel Rates

<b>Belgium</b>	<b>£ 43.94</b>	<b>Italy</b>	<b>£ 41.90</b>
<b>Corsica</b>	<b>£ 43.94</b>	<b>Monaco</b>	<b>£ 31.42</b>
<b>Czech Rep.</b>	<b>£ 50.14</b>	<b>Norway</b>	<b>£ 38.15</b>
<b>Denmark</b>	<b>£ 31.42</b>	<b>Poland</b>	<b>£ 38.15</b>
<b>Estonia</b>	<b>£ 71.52</b>	<b>Portugal</b>	<b>£ 43.55</b>
<b>Finland</b>	<b>£ 50.14</b>	<b>Slovenia</b>	<b>£ 45.18</b>
<b>France</b>	<b>£ 31.42</b>	<b>Spain</b>	<b>£ 41.90</b>
<b>Germany</b>	<b>£ 31.42</b>	<b>Sweden</b>	<b>£ 45.18</b>
<b>Greece</b>	<b>£ 43.55</b>	<b>Turkey</b>	<b>£ 79.79</b>
<b>Holland</b>	<b>£ 43.94</b>		



\*Delivery prices may alter with fuel costs

# 6 DELIVERY CHARGES



## UK DOMESTIC PALLET RATES

(Full size pallet: 1,200 kgs - 72" high)

### ECONOMY 3 DAY

Price - £ 49.99

AL, B, BA, BB, BD, BH, BL, BN, BR, BS, CB, CF, CH, CM, CO, CR, CR, CV, CW, DA, DE, DH, DL, DN, DT, DY, EN, FY, GL, GU, HA, HD, HG, HP, HR, HU, HX, IG, IP, KT, L, LA, LE, LL1-31, LN, LS, LU, M, ME, MK, NE, NG, NN, NP, NR, OL, OX, PE, PO1-22, PR, RG, RH, RM, S, SG, SK, SL, SM, SN, SO, SP, SR, SS, SY1-9, TW, UB, WA, WD, WF, TA, TF, TN, TS, WN, WR, WS, WV, YO

£ 52.99	£ 53.99	£ 54.99	£ 55.99	£ 56.99	
CA	EX	SW2+, TQ	PL1-19	E, N, NW, SE	
£ 58.99	£ 59.99	£ 60.99	£ 61.99	£ 62.99	£ 63.99
EH, FK, G, KA Rest, LD, LL32-78, ML, PA1-19, SA, SY10+, TD	DG	TR	SW1, W, WC	EC	KY
£ 66.99	£ 72.99	£ 76.99	£ 82.99	£ 83.99	£ 86.99
PL22+	DD	PH1-18	AB10-25 30-56	BT, IV52-54 57+, P030-41	KW 1-14, PA21-39, PH19-41 49-50
£ 91.99	£ 113.99	£ 115.99	£ 116.99	£ 123.99	£ 125.99
IV1-40, PA40-41	IM	GY	HS, PA20	PH42-44	IV41-51 55-56, PA42+
£ 128.99	£ 133.99	£ 146.99			
KA27-28	JE	KW15-17, ZE			

### PRIORITY NEXT DAY SERVICE

Price - £ 59.99

AL, B, BA, BB, BD, BH, BL, BN, BR, BS, CB, CF, CH, CM, CO, CR, CT, CV, CW, DA, DE, DH, DL, DN, DT, DY, EN, FY, GL, GU, HA, HD, HG, HP, HR, HU, HX, IG, IP, KT, L, LA, LE, LL1-31, LN, LS, LU, M, ME, MK, NE, NG, NN, NP, NR, OL, OX, PE, PO1-22, PR, RG, RH, RM, S, SG, SK, SL, SM, SN, SO, SP, SR, SS, SY1-9, TA, TF, TN, TS, TW, UB, WA, WD, WF, WN, WR, WS, WV, YO

£ 62.99	£ 63.99	£ 64.99	£ 65.99	£ 66.99	
CA	EX	SW2+, TQ	PL1-19	E, N, NW, SE	
£ 68.99	£ 69.99	£ 70.99	£ 71.99	£ 72.99	£ 73.99
EH, FK, G, KA Rest, LD, LL32-78, ML, PA1-19, SA, SY10+, TD	DG	TR	SW1, W, WC	EC	KY
£ 76.99	£ 88.99	£ 93.99	£ 94.99	£ 100.99	£ 146.99
PL22+	DD	BT	PH1-18	AB10-25	IV41-51 55-56, KA27-28, Pa20+

### IRELAND

3 DAY	DC, DUB	£ 83.99
NEXT DAY	DC, DUB	£ 93.99
3 DAY	Rest on Ireland	£ 98.99

### INTERNATIONAL PALLETES

Southern Ireland	£ 99.00
Italy	£ 150.00
France	£ 150.00

# 6 DISCOUNT STRUCTURE / PAYMENTS

## DISCOUNT STRUCTURE

We have two discount structures in effect; account holders and non-account holders.

Those who have a credit account with Pole Star receive a set discount rate for all orders regardless of the quantity ordered. If there are items which you use on a regular basis then specific product discount rates may apply.

Those who are not account holders can achieve a quantity discount.

ORDER QUANTITY	DISCOUNT %
1-4	0%
5-9	10%
10-24	15%
25-49	25%
50+	Please contact us

All products are subject to the discount policy, only carriage charges and labour are not subject to discount.

## PRICING INFORMATION

The prices shown are nett, ex-works and exclusive of value added tax.  
This price list supersedes all previously published price lists.  
The prices charged are those that are ruling at the time of despatch.  
All transactions are subject to our terms and conditions.  
We reserve the right to amend prices and discounts at any time and without notice.  
Credit terms, subject to approval are strictly nett monthly.  
There are no minimum order quantities or minimum invoice values.

## PAYMENT METHODS

Pole Star is pleased to offer a varied selection of payment methods to all our customers.

- **Cheque/Post**  
Please make all cheques out payable to "Pole Star Products Limited"
- **BACS (Electronic Transfer)**  
**GBP account**  
If you are making an electronic payment please use the following information  
Account Number – 0604 5570  
Sort code – 12-24-82  
BIC: BOFSGBS1BBB  
IBAN: GB48 BOFS 1224 8206 0455 70  
#Reference – Your account number, eg. ABC.001
- **EURO account**  
Account Number – 86563558  
Sort code – 12-24-82  
BIC - BOFSGBS1BBB  
IBAN: GB03BOFS12248286563558  
#Reference – Your account number, eg. ABC.001
- **Debit/Credit Card**  
We accept all major credit and debit cards including American Express, however American Express cards are subject to a 4% surcharge. Please call 01 526 399711 to supply the card details.

**Please note:** all other credit cards incur a 2.5% surcharge.

# 6 CONTACT US

## GENERAL ENQUIRIES

**Tel:** +44 (0)1526 399711 (Main)

**Fax:** +44 (0)1526 399744 (Main)

**Tel:** +44 (0)1526 399733 (Overflow)

**Fax:** +44 (0)1526 399722 (Overflow)

## SALES OFFICE

[sales@psp.uk.com](mailto:sales@psp.uk.com)

**MIKE COOK**

Sales & Operational enquiries

[m.cook@psp.uk.com](mailto:m.cook@psp.uk.com)

**ADAM PINNELL**

Order enquiries

[a.pinnell@psp.uk.com](mailto:a.pinnell@psp.uk.com)

**CHRIS BECK**

Order enquiries

[c.beck@psp.uk.com](mailto:c.beck@psp.uk.com)

**KATIE CHAPMAN**

Email enquiries

[k.chapman@psp.uk.com](mailto:k.chapman@psp.uk.com)



## ACCOUNTS OFFICE

[accounts@psp.uk.com](mailto:accounts@psp.uk.com)

**VICKY BRYANT**

Account enquiries

[v.bryant@psp.uk.com](mailto:v.bryant@psp.uk.com)

**CAROL COOK**

Statements

## PURCHASING

[purchasing@psp.uk.com](mailto:purchasing@psp.uk.com)

**TONY COWOOD**

Purchase enquiries

[t.cowood@psp.uk.com](mailto:t.cowood@psp.uk.com)

**CHRIS KLOED**

Goods inward/despatch

[c.kloed@psp.uk.com](mailto:c.kloed@psp.uk.com)



## EXTERNAL SALES

**DAVID COWOOD**

Sales / site visits  
Display motors & literature

[d.cowood@psp.uk.com](mailto:d.cowood@psp.uk.com)

**ALLAN VUKOMANOVIC**

Business Development Manager

[allan@psp.uk.com](mailto:allan@psp.uk.com)



## MARKETING DEPARTMENT

**SIMONA VAINULEVICIUTE**

[enquiries@psp.uk.com](mailto:enquiries@psp.uk.com)

[design@psp.uk.com](mailto:design@psp.uk.com)

## WAREHOUSE

**STUART PRIOR**

Goods in

**LIAM TUPPEN**

Goods out

**ASHLEY SAVILLE**

Warehouse operative

## PRODUCTION/MODIFICATION

**SCOTT COOMBES**

Motor modification



PoleStarMotors



LinkedIn



Pole-star Motors



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# IP EXPLANATION & RATING (ENCLOSURE TYPES)

**EN 60529 outlines an international classification system for the sealing effectiveness of enclosures of electrical equipment against the intrusion into the equipment of foreign bodies (i.e. tools, dust, fingers) and moisture. This classification system utilizes the letters "IP" ("Ingress Protection") followed by two or three digits. (A third digit is sometimes used. An "x" is used for one of the digits if there is only one class of protection; i.e. IPX4 which addresses moisture resistance only.)**

## DEGREES OF PROTECTION - FIRST DIGIT

The first digit of the IP code indicates the degree that persons are protected against contact with moving parts (other than smooth rotating shafts, etc.) and the degree that equipment is protected against solid foreign bodies intruding into an enclosure.

0	No special protection
1	Protection from a large part of the body such as a hand (but no protection from deliberate access); from solid objects greater than 50mm in diameter.
2	Protection against fingers or other object not greater than 80mm in length and 12mm in diameter.
3	Protection from entry by tools, wires, etc., with a diameter of thickness greater than 1.0mm.
4	Protection from entry by solid objects with a diameter or thickness greater than 1.0mm
5	Protection from the amount of dust that would interfere with the operation of the equipment.
6	Dust tight.

## DEGREES OF PROTECTION - SECOND DIGIT

The second digit indicates the degree of protection of the equipment inside the enclosure against the harmful entry of various forms of moisture (e.g. dripping, spraying, submersion, etc.)

0	No special protection
1	Protection from dripping water.
2	Protection from vertically dripping water.
3	Protection from sprayed water.
4	Protection from splashed water.
5	Protection from water projected from a nozzle
6	Protection against heavy seas, or powerful jets of water.
7	Protection against immersion.
8	Protection against complete, continuous submersion in water.



# 6 USEFUL INFORMATION

## CONVERSION DATA

### LENGTH

metric to imperial	Imperial to metric
mm x 0.394 = ins	ins. X 25.4 = MM
m x 3.281 = feet	feet x 0.3048 = m
m x 1.094 = yards	yards x 0.9144 = m
km x 0.6214 = Miles	miles x 1.609 = km

### AREA

cm <sup>2</sup> x 0.155 = sq ins	sq ins. X 6.452 = cm <sup>2</sup>
m <sup>2</sup> x 10.76 = sq ft	sq ft x 0.929 = m <sup>2</sup>
m <sup>2</sup> x 1.196 = sq yards	sq yards x 0.8361 = m <sup>2</sup>
km <sup>2</sup> x 0.386 = sq miles	acres x 0.4047 = hectare

### VOLUME

cm <sup>3</sup> x 0.061 = cu ins	cu ins x 16.39 = cm <sup>3</sup>
m <sup>3</sup> x 35.32 = cu ft	cu ftx 0.283 = m <sup>3</sup>
m <sup>3</sup> x 1.308 = cu yards	cu yards x 0.7645 = m <sup>3</sup>
litres x 1.76 = pints	pints x 0.568 = litre = dm <sup>3</sup>
litres x 0.2205 = gallons	gallons x 4.546 = litre - dm <sup>3</sup>

### FLOW RATES

Units	CFM	M <sup>3</sup> /hr	L/min	L/Sec
10 CFM	10	17	283.3	4.72
10 M <sup>3</sup> /hr	17	10	0.6	0.01
30 L/min	0.35	0.6	10	0.17

### HP - WATTS

1	745.69W
3/4	559.27W
5/8	466.06W
1/2	372.85W
3/8	279.63W
1/3	248.56W
1/4	186.42W
1/6	124.28W
1/8	93.21W
1/16	46.61W

### INCHES - MM

1/16	1.6mm
1/8	3.2mm
1/6	4.8mm
1/4	6.4mm
5/16	7.9mm
3/8	9.5mm
7/16	11.1mm
1/2	12.7mm
9/16	14.3mm
5/8	15.9mm
11/16	17.5mm
3/4	19.1mm
13/16	20.6mm
7/8	22.2mm
15/16	23.8mm

## APPROXIMATE POWER OUTPUTS

1PH PSC Motors			
Amps	Watts out	Watts in	Poles
0.50	35	110 (2MF)	4
0.65	50	145 (2.5MF)	4
0.75	75	165 (3.15MF)	4
1.00	100	180 (3.15MF)	4
1.20	150	280 (4.5MF)	4
1.40	180	310 (5MF)	4
1.60	210	350 (6.3MF)	4
2.10	250	230 (10MF)	6
3.00	370	600 (12MF)	6
3.60	550	990 (16MF)	6
5.10	735	1200 (20MF)	6

Shaded Pole Motors			
Amps	Watts out	Watts inc	Stack
0.20	5	32	13.5mm
0.21	7	35	20mm
0.23	10	38	21mm
0.45	16	65	25mm
0.52	18	73	30mm
0.68	25	95	40mm
0.87	34	120	45mm

NEMA Insulation Classes		
Insulation Rating	Max. Operation temp	
	°C	°F
A	105	221
B	130	266
F	155	311
H	180	356

## CHOOSING THE CORRECT FAN

In order to select the correct fan please find below recommended air changes per hour in normal conditions for the following buildings:

<b>Banks</b>	2-4	<b>Lauderettes</b>	24-40
<b>Bars/Cafes</b>	10-12	<b>Living Rooms</b>	4-6
<b>Pool/Games Rooms</b>	6-8	<b>Hospitals</b>	5-7
<b>Classrooms</b>	2-4	<b>Offices</b>	5-7
<b>Conference Rooms</b>	8-10	<b>Restaurants</b>	10-15
<b>Dark Rooms/X-ray</b>	10-15	<b>Shops/supermarkets</b>	4-6
<b>Fish &amp; Chip shops</b>	25-40	<b>Swimming Pools</b>	25-30
<b>Kitchens (domestic)</b>	10-15	<b>Toilets/bathrooms</b>	10-15
<b>Laboratories</b>	5-10	<b>Canteen</b>	6-10