



**STRATEGIC METALS PVT. LTD.**  
SOLAR DIVISION

106, Commerce Centre, Gujarat Ind. Compound,  
Vishveshwar Nagar, Off. Aarey Road,  
Goregaon (East), Mumbai - 400 063, INDIA

Tel: +91-22-40669600, +91-22-29271870  
Fax: +91-22-29271873 Mob: +91-9820033076  
Email: info@metalink.in  
Web: www.metalink.in



**STRATEGIC METALS PVT. LTD.**  
SOLAR DIVISION



## Introduction

We are trading company dealing in recycling material like Metal Scrap, Wood Pulp and Waste / recovered Paper / Fiber. Recovered Oil from rubber processing, Raw Material for steel manufacturers, Automobile Die Casting and Foundries.

We enjoy trust of leading manufacturers from all fields and cater to demands of steel producers, foundries, Auto Component manufacturers & Paper manufacturers etc.

We have now divested our activity on renewable energy to create 'Green Zone' and concentrated on Solar Based products. All products are stocked in India to serve better at the time of installation and after sales service.

## SMPL METSOLAR Values



Solar energy is a direct and renewable source of energy. Solar energy is free of charge and free of pollution. Solar Powered LED lighting is an innovative technology. Solar Powered LED lighting is efficient and affordable.

### Key Features:

1. Environmentally friendly – full energy-saving and no pollution
2. Fast and easy installation – no wiring, no trenching, no switch, and no power cord necessary
3. Smart technology – automatic on/off
4. Reliable and durable – superior long-lifetime solar cells and high-quality battery pack/capacitor
5. Free of maintenance – all-weather, water-proof, shock-resistant and trouble-free structure
6. Wide applications – great applications for commercial and residential purposes



## Solar Powered Tile Lighting Series



Model	SPH-A00101	SPH-A00201	SPH-A00301	SPH-A00401	SPH-A00601
Outer Dim.(mm)	Φ 108x70	113x113x70	213x113x72	231x231x84.5	
Weight(kg)	0.6	0.92	1.5	2.5	
LED Color	BL - GN - RD - YW - WH				
Lighting Mode	Constantly				
Activation Mode	Light Sensor				
Working Time	12 Hrs above				
Operation Temp. (C)	-20-60				
Visibility(m)	200		300		
Pressure Resistance(t)	12	22	23	25	





## Solar Powered Garden Lighting Series



Model	SPH-C00103	SPH-C00203
Outer Dim.(mm)	Φ 24.6x36.3	Φ 24.4x50
Weight(kg)	2	
Lighting Mode	Constantly	
Power Storage Protection	Over-charge/discharge Protection	
Activation Mode	Light Sensor	
Working Time	8 Hrs above(except for cloudy/rainy days)	
Operation Temp. (C)	-20-60	
Visibility(m)	500	



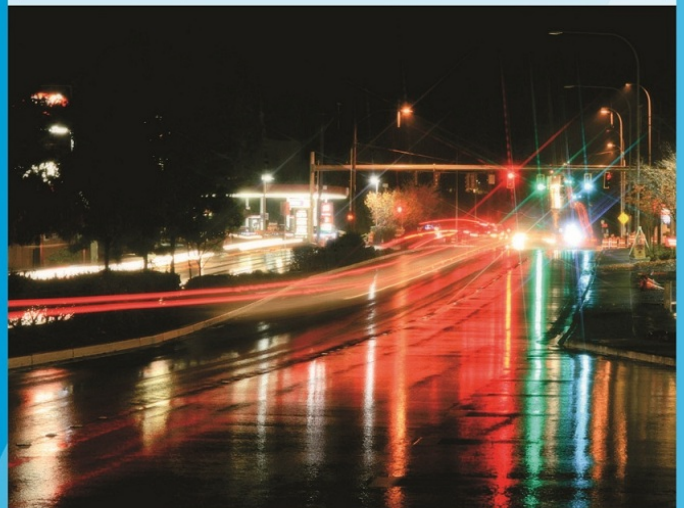
Model	SPH-C00503	SPH-C00603	SPH-C00903
Outer Dim.(mm)	Φ 24.6X200	Φ 17.5X200	Φ 18X137
Weight(kg)	15		6
Lighting Mode	Constantly		
Power Storage Protection	Over-charge/discharge Protection		
Activation Mode	Light Sensor		
Working Time	12 Hrs above(except for cloudy/rainy days)		
Operation Temp. (C)	-20-60		
Visibility(m)	500		



## Solar Powered Traffic Warning Light Series



Model	SPH-E00103	SPH-E00133	SPH-E00201	SPH-E00301	SPH-E00403	SPH-E00501
Outer Dim.(mm)	Φ 132x145	Φ 119x69	360x360x754	242x98x98.5	Φ 50x48.5	
Weight(kg)	0.7	0.335	0.4	0.64	0.112	
LED Color	RD	RB	RD - OR - AM	RB	RD	
Lighting Mode	Flash Type					
Power Storage Protection	Over-charge/discharge Protection					
Activation Mode	Light Sensor					
Working Time	Super Capacitor : 12 Hrs above : LI-Fe Battery : 12Hrs above(excepte for alody/rainy days)					
Operation Temp. (C)	-20-60					
Visibility(m)	400					







## LED AC Energy-Saving Spotlight Series



Model	LAH-D02400	LAH-D02800	LAH-D03200
Total Wattage (W)	30	150	100
LED / Q'ty of LED's (pcs)	1	60	
Weight(kg)	2.21	6.54	
Outer Dim.(mm)	225x185x158	832x222x150	
Lighting Mode	Constantly		
Illumination from 1m (Lux)	647	2200	1150
Beam Angle (°)	120	120	
Operation Temp. (C)	-20~50		
Material	Engineering Plastics - Aluminum		



## LED AC Energy-Saving Highbay Lights

Model	LAH-L00100	LAH-L00200	LAH-L00300	LAH-L00400	LAH-L00500	LAH-L00600	LAH-L00700	LAH-L00800
Type	High Bay Lighting							
Total Wattage (W)	30	50	70	100	150	180	210	250
LED / Q'ty of LED's (pcs)	60	48	72	80	120	80	100	120
Weight(kg)	2.8	2.8	3			8.7	8.7	8.7
Outer Dim.(mm)	φ 300x385	φ 400x380	φ 400x380	φ 400x395	φ 400x395	φ 500x450	φ 500x450	φ 500x450
Lighting Mode	Constantly							
LED Color	NW, WH, WW							
Input Current (mA)	140~350	230~560	330~780	460~1100	700~1670	800~2000	950~2350	1150~2800
Input Voltage (V)	100~240							
LED Current (mA/pcs)	150	320		350		650		
LED Voltage (V)	3.5~3.6							
Beam Angle (°)	120							
Operation Temp. (C)	-20~40							
Material of Body	Aluminum Alloy							
Material of Head	Aluminum Alloy							





## LED AC Energy Saving Street lamp

LED Color - NW, HW, WW  
 Light Source - 16PCSx0.06W  
 LUX - 7900~10680  
 IP Protection - IP65  
 Dimension - 400x200x72MM



16 W

### FEATURES:

- Energy saving of up to 50% as compared to high voltage mercury lamp
- Higher degree of illumination and constant lighting mode
- Light source life of up to 50,000 hours
- No effect in case of voltage drop
- No mercury & hazard material contained
- No radiation and no flashing



Also Available  
 [20W]  
 [30W]  
 [35W]  
 [50W]  
 [120W]  
 [220W]



## Projects Off-Grid

5kwp Roof Mounted Solar Pv Power Plant  
 High Efficiency Polycrystalline Silicon Technology  
 Location Reference : Khardi (Maharashtra)  
 Status : Commissioned in Oct. 2012



Installation of Solar Based Street Lights  
 Location Reference : Kalyan (Maharashtra)  
 Status : Project Under Execution





# Panel Specifications

Electrical Characteristics	PXK-100	PXK-110	PXK-120	PXK-125	PXK-130	PXK-140	PXK-150	PXK-160	PXK-175	PXK-185	PXK-190	PXK-200	PXK-210	PXK-220	PXK-230
Power(Pm) in Watts(Nominal)	100	110	120	125	130	140	150	160	175	185	190	200	210	220	230
Open Circuit Voltage(Voc) in Volts	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Short Circuit Current(Isc) in Amps	6.35	6.98	7.30	7.62	7.94	8.25	8.4	8.65	8.96	9.29	9.50	9.70	10.00	10.30	10.60
Voltage at Maximum Power(Vmp) in Volts	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Current at Maximum Power(Imp) in Amps	5.88	6.47	6.76	7.06	7.35	7.65	7.82	8.04	8.29	8.57	8.82	9.07	9.32	9.57	9.82
Maximum System Voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Solar Cell Per Module (Units)	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Length(L) mm	1150	1260	1305	1350	1400	1495	1485	1485	1485	1485	1485	1485	1485	1485	1485
Width (D) mm	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675
Thickness (T) mm	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Weight-KG	16.15	11.30	12.00	11.75	12.00	11.75	14.00	14.45	14.45	14.45	14.45	14.45	14.45	14.45	14.45
Mounting Holes Pitch (Y)mm	575	630	650	700	915	915	570	570	915	915	915	915	915	915	915
Mounting Holes Pitch (X)mm	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
Area-Sq.M	0.77	0.85	0.88	0.91	0.94	1.01	1.01	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Junction Box(Terminals)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Diode in Junction Box	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Measurement Tolerance on Power +/- %. All electrical parameters Specified at STC 25c cell temperature, 1000W/M2 Irradiance, AM 1.5



## Other Products



## Comparison of Saving Between LED Light Tubes & Traditional T8 Tube

	Traditional T8 Tube	Our LED Light Tube
1.2M Total Wattage	47W	20W
Quantity of Tubes	500 Pieces	
Cost for 500 Tubes	INR 2,45,000	INR 9,80,000
Total Electricity Charge (12hrs/day/Year@INR7.2kWh)	INR 7,41,096	INR 3,15,360
Total Cost Saved	0	INR 4,25,736
Luminosity	2m height/381 lux 3m height/198 lux	2m height/587 lux 3m height/230 lux
Percentage of illumination Improved (2m height)	0%	54%
Percentage of Energy Saved		57.44%
Time to ayback (Application 12hrs per day)		1.57 Years
Time to payback (24hrs per d)		9.47 Months