



Ideal for : Roads, Bridges, Yards, Jogging and Pathway Lighting, Ramp Lighting, Perimeter Security Lighting, Village Lighting, Parks, Campus, Boat Dock, Remote Area Lighting, Townships and Housing Colonies, Hotels & Resorts.

APOLLO SERIES

Salient Features

- a) Luminaries are available in LED & CFL based technologies.
- b) DGS&D and MNRE approved models.
- c) Independent Power Source.
- d) Controlled charging & discharging to prolong battery life.
- e) Automatic dusk to dawn operation.
- f) Highly reliable and best quality PV Modules.
- g) Eco - friendly (no fossil fuel, no pollution).
- h) Designed to operate in a rugged weather condition

Benefits

- a) Independent from utility grid and thus no possibility of flickering.
- b) Inexhaustible source of supply.
- c) No external wiring and thus shock free.
- d) No line voltage, No cables & No metering bills.
- e) Battery backup for cloudy or rainy days
- f) Easy to install.
- g) Low maintenance.
- h) No cost of transformers or meters to be added for electric service.
- i) Optimized electrically & thermally designed light source to deliver maximum output.
- j) Faster returns on your investment.

* Customised solutions available



MODEL SPECIFICATION	9L 9W LED	11C 11W CFL	12L 12W LED	15L 15W LED	18L 18W LED	22C 22W CFL	30L 30W LED	40L 40W LED	50L 50 LED	60L 60W LED	80L 80W LED
PV MODULE											
a) Rated Output Power(Pm)(in Watts)	45 Wp	75 Wp	90 Wp	75 Wp	90 Wp	110 Wp	150 Wp	200 Wp	240 Wp	280 Wp	400 Wp (200 Wp x 2)
b) Vol. at max. power(Vmp)(in Volts)	17	17	17	17	17	17	17	26	29	35	26
c) Current at max. power(Imp)(in Amps)	2.65	4.42	5.29	4.42	5.29	6.48	8.82	7.69	8.28	8	7.69
d) Open Circuit volts(Voc)(in Volts)	21	21	21	21	21	21	21	32	36	43	32
e) Short Circuit Current(Isc)(in Amps)	2.85	4.76	5.71	4.76	5.71	6.98	9.52	8.33	8.89	8.68	8.33
f) Dimension (L*W*T) (All in mm)	630 x 675 x 35	900 x 675 x 35	1035 x 675 x 35	900 x 675 x 35	1035 x 675 x 35	1280 x 675 x 35	1490 x 675 x 35	1490 x 990 x 42	1660 x 990 x 42	1660 x 990 x 42	1490 x 990 x 42
g) Weight(in KG)	4.50	7.95	9	7.95	9.00	11.30	11.75	17.5	20.5	29	17.5
h) Junction Box Protection	Weather Proof Nylon 6/IP 65										
LUMINARY											
a) Power Output (Watt)	9 Wp	11 Wp	12 Wp	15 Wp	18 Wp	22 Wp	30 Wp	40 Wp	50 Wp	60 Wp	80 Wp
b) Operating Voltage	12V D.C.	12V D.C.	12V D.C.	12V D.C.	12V D.C.	12V D.C.	12V D.C.	24 V D.C.	24 V D.C.	24 V D.C.	24 V D.C.
c) Charging Current capacity (Amps)	6	10	10	10	15	15	15	20	15	15	15
c) No of LED/CFL per Luminary	5	1	6	9	9	2	15	18	25	30	40
d) Luminous Lux	1000	900	1400	1800	2100	1800	3600	>4500	6000	7200	>9000
e) LED Driver efficiency	>92 %	NA	>92 %	>92 %	>92 %	NA	>92 %	>92 %	>92 %	>92 %	>92 %
f) Body (Unbreakable)	Aluminium	Plastic	Aluminium	Aluminium	Aluminium	Plastic	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
g) Lamp life	>50000 hrs	> 10000 hrs	>50000 hrs	>50000 hrs	>50000 hrs	> 10000 hrs	>50000 hrs	>50000 hrs	>50000 hrs	>50000 hrs	>80000 hrs
BATTERY - Tubular / Sealed maintenance free (SMF)											
a) System Voltage	12 V	12 V	12 V	12 V	12 V	12 V	12 V	24 V	24 V	24 V	24 V
b) Capacity (AH)	40 AH	75 AH	75 AH	75 AH	75 AH	75 AH	100 AH	75 AH	100 AH	100 AH	150 AH
c) Weight (with Acid)	22.7 Kg	43.0 Kg	43.0 Kg	43.0 Kg	43.0 Kg	43.0 Kg	57.0 Kg	86.0 Kg	114.0 Kg	114.0 Kg	172.0 Kg
d) Autonomy	2 Days	3 Days	3 Days	2 Days	2 Days	2 Days	2 Days	2 Days	2 Days	2 Days	2 Days
e) Dimension	500 mm x 187 mm x 418 mm										
Battery box, Module Structure, Luminary Stand, Pole											
a) Pole Height	5 mtr	5 mtr	6 mtr	6 mtr	6 mtr	6 mtr	6 mtr	8 mtr	8 mtr	8 mtr	8 mtr
b) Pole Material	GI, Class B; Painted with corrosion resistant paint										
c) Pole Diameter	2.5"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.5"	3.5"	3.5"	3.5"
d) Pole Weight	26 Kg	29 Kg	33 Kg	33 Kg	33 Kg	33 Kg	33 Kg	50 Kg	50 Kg	50 Kg	50 Kg
PROTECTION											
a) Load Side Protection	Reverse Polarity Protection, Short circuit Protection										
b) Battery Side Protection	Over Charging, Low Battery, Battery Reconnect, Reverse polarity, Battery Temperature compensation										
c) PV Module Side Protection	Reverse Current Flow to PV Module at Night, Reverse Polarity										

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