

## Solar Home System



MPPT BASED SOLAR BATTERY CHARGER

20W TO 80W OUTPUT POWER CAPACITY

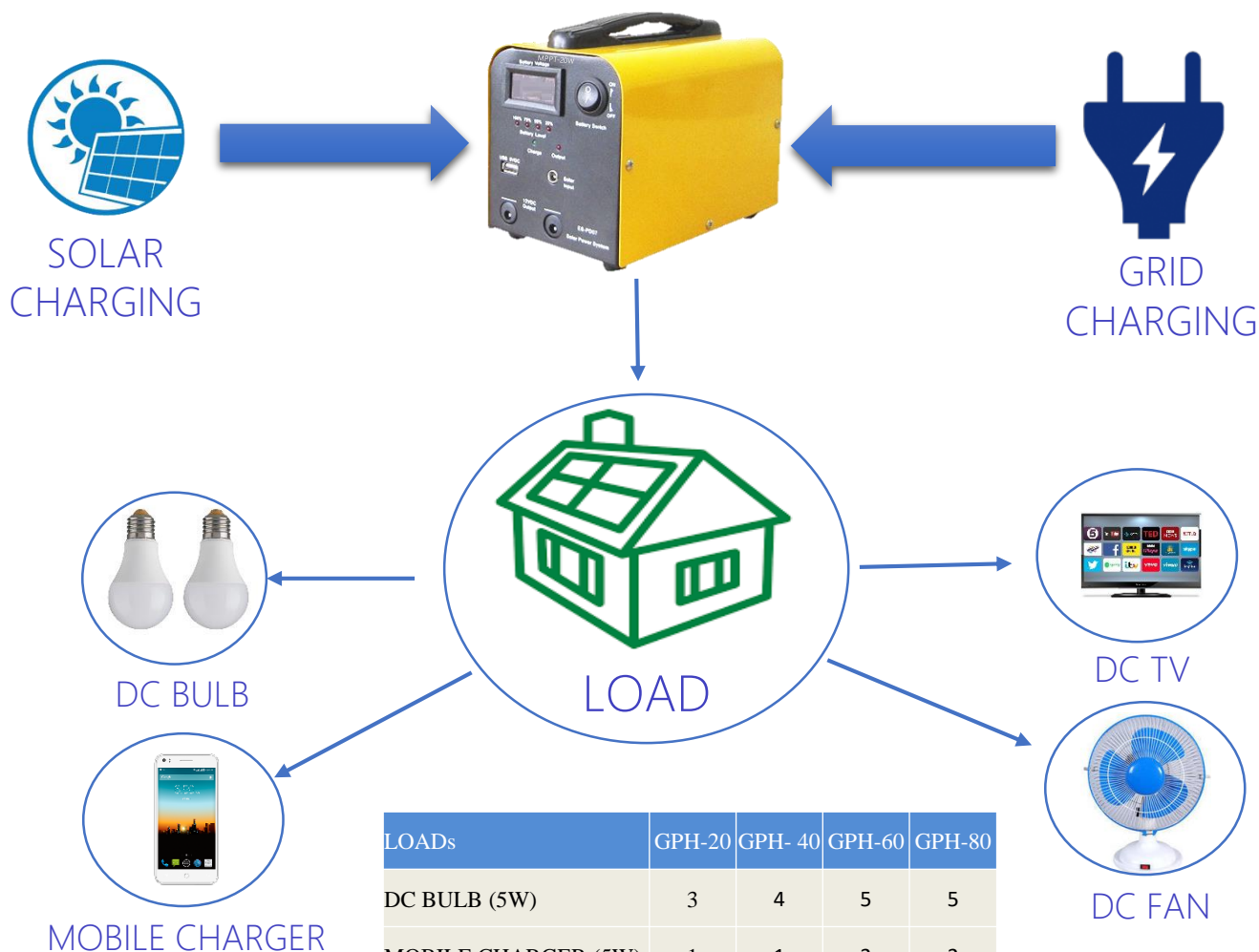
IN BUILT SMF BATTERY FOR 8 HOUR BATTERY BACKUP

SMART ANDROID APPLICATION TO CONTROL AND MONITOR THE SYSTEM

CONTROL AND MONITOR THE LOAD BY ANDROID SMARTPHONE APP

## HOW IT WORKS?

A Solar Home System (SHS) is a small-scale, autonomous electricity supply for households that are off-grid or have unreliable access to energy. It generates electricity from sunshine and stores the electricity in a battery for consumption during the night or cloudy days. SHSs generate direct current (DC) that can be used for a range of electrical appliances, from lighting and mobile phone charging to small televisions, radios, fans or other appliances. By replacing fossil energy sources such as kerosene, candles and dry batteries, SHSs have the potential to reduce indoor air pollution and substitute energy expenditures.



LOADs	GPH-20	GPH- 40	GPH-60	GPH-80
DC BULB (5W)	3	4	5	5
MOBILE CHARGER (5W)	1	1	2	2
DC FAN (18W)		1		1
DC TV (25W)			1	1

Solar Charge Controller	GPH-20	GPH- 40	GPH-60	GPH-80
Output Power Rating	20W	40W	60W	80W
Solar Panel Wattage	20Wp	50Wp	75Wp	100Wp
Battery Voltage	12V DC			
Battery AH Capacity	20Ah	40Ah	75Ah	100Ah
Peak efficiency	98%			
Self-consumption	20mA			
Type of Solar Charger	MPPT Battery Charger			
Protection	Battery reverse polarity(fuse) Output short circuit/Over Temperature			
Operating temperature	(-30) to (+60 °C)(full rated output up to 40 °C)			
Humidity	95%, non-condensing			
Data communication port	Data communication can be monitor by ENERGIA app from google play store.			
ENCLOSURE				
Color	OFF WHITE (RAL 9002)			
Power terminals	6 mm²/AWG10			
Protection category	IP20			
Weight	8.5kg	12kg	16kg	22kg
Dimensions(hXwXd)	200X150X100mm	300X150X100mm	300X300X150mm	300X300X200mm
STANDARDS				
Safety	EN/IEC 62109			

