

# SOLAR MANAGEMENT UNIT (SMU)

## TECHNICAL SPECIFICATIONS

Model	SM 12-24/20	SM 12-24/40	SM 48/ 40
Nominal System Voltage	12/24V DC ( auto Sensing)		48V DC
Charging current (Solar)	20A	40 A	40A
Battery Voltage	Tubular /SMF Battery 12V/24V		Tubular /SMF Battery 48V
Battery (Ah)	100Ah -200Ah		
Battery charging regulation method	(Bulk/ Absorption /Float )		
Solar Module size (Max)	12V, 20A : Upto 300 W	12V, 40A : Upto 500 W	upto 2000W
	24V, 20A : Upto 500 W	24V, 40A : Upto 1000W	
Charge controller efficiency	>95%		
Idle consumption	< 25 m A		
Operation Solar input voltage (Voc)	25V for 12V battery ; 45V for 24V battery		90V
Float Charging Voltage	13.6V to 14.6V per Battery		
Mains connect when solar not present	At any battery voltage		
Mains Disconnect when sufficient Solar Power	$\geq 13.7V \pm 2\%$ per Battery		
Mains reconnect when insufficient Solar Power	$\leq 11.8v \pm 2\%$ per Battery		
Display Parameters	Battery Volt , Solar Volt , Mains On/Off , Battery Charge status , Kwh - Generation , Charging current		
Protections	Battery / Solar Reverse Polarity , Overload/short circuit , High Voltage ,		
Ingress protection	Indoor Enclosure ( IP20)		
Fixing	Wall Mounted		
Operating temperature	0 <sup>o</sup> C to 45 <sup>o</sup> C		
Max. Relative Humidity	5% to 95% ( Non Condensing )		

\* Product upgradation is a continuous process, hence, data in this product catalogue is subject to change without prior notice.

\*\* These specifications are for a standard Product. Customized specifications can be offered against specific requirements.