

INTRODUCING NEW GENERATION OF SOLAR CHARGERS

Fully compatible, plug-n-play series of MPPT based solar chargers with remote monitoring capability



Equipped with current sharing mechanism; CCCV to battery and MCCV to load



LCD screen displays all solar parameters including energy generation



DSP based technology with interleaved MPPT switching



Multiple DC and battery related protections, inbuilt lightning protection



Easy to install and compact in size



Equipped with remote monitoring facility



Inbuilt 4-stage charging enhances battery life by 1-2 years



MPPT efficiency at 99%

TECHNICAL SPECIFICATIONS

MPPT Capacity (KW)	0.5	2	5	15	22.5	30	60
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Maximum recommended PV Panel Capacity 1.2x MPPT capacity

• Control Device Digital Signal Processor (DSP)

• Power Device MOSFET IGBT

• MPPT Power Topology 2-Phase Interleaved MPPT 4-Phase Interleaved MPPT

INPUT AND OUTPUT DATA

• MPPT Input Voltage (Vmp)	18V - 88V	60V - 700V
• Output Voltage Range	10V - 60V	24V - 600V
• Battery Charging Current	10% of Battery Ah Capacity (Settable)	
• Battery Charging	4-level charging	4 Stage: Boost, Float, Release & Trickle; CCCV to battery and MCCV to load

EFFICIENCY

• Max. MPPT Efficiency >99%

PROTECTION DEVICES

• MPPT output over-current protection • MPPT output over-voltage protection • MPPT reverse polarity protection • Battery full charge cut-off • Lightning / Surge protection • Low ripple current in input due to interleaved switching technology • Less than 0.02W power consumption from battery during night when no panel voltage available

GENERAL DATA

• Operating Temperature Range	-10C to 60 C	
• Noise Emission	Nil	
• Battery Low	Settable	
• Battery + Solar Cut-Off	Settable	
• Isolation	No Isolation, positive is common	
• Cooling concept	Natural Cooling	Natural Convection through heat sink
• Environmental Protection Rating	Ip21	IP 65 (IEC 60529)

FEATURES

• Inbuilt Lightning/Surge Protection • Multiple DC Protections • Remote monitoring system via Wifi /Zigbee or GSM (optional) • Display-16 x 4 LCD • Warranty - 2 years, extendable to 5 years • Automatic changeover to power load directly via solar once battery is fully charged

STANDARDS

• Efficiency	IEC 61683
• Environmental	IEC 60068-2-1, IEC60068-2-2, IEC 60068-2-14, IEC 60068-2-30
• Safety	IEC 62109-1, IEC 62109-2

Specifications subject to change without prior notice

Authorized Dealer