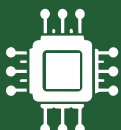




Key Features



**ADVANCED MPPT
TECHNOLOGY**



**SMART DIGITAL
CONTROL**



**LCD STATUS
DISPLAY**



**WALL MOUNT
DESIGN**



**MULTI-LEVEL
PROTECTION**



Tejas 12V / 25A DC Solar MPPT PCU is a compact and intelligent solar power solution designed to deliver efficient battery charging and reliable DC power for off-grid and backup power applications. Equipped with advanced MPPT technology, it maximizes solar energy harvesting, improves charging efficiency, and helps extend battery life under varying solar conditions.

Designed with intelligent digital control, comprehensive protection features, an easy-to-read LCD display, and a compact wall-mounted enclosure, the TEJAS MPPT PCU ensures safe, dependable operation and simple installation. Compatible with 24V solar PV modules and a 12V battery system, it is an ideal choice for residential, rural, and commercial applications across global markets.

TECHNICAL SPECIFICATION
MODEL: 12V / 25AMP DC MPPT SOLAR PCU

Battery Volt	12V
Battery Type	Lead Acid/TUB./SMF
Technology	Digital Processor Based High Efficiency Design
Max. Battery charging Current	25 Amp.
Charge controller Rating	25 Amp.
Max. Solar VOC	25 V
Min. Solar VOC	20V
PV High Cut	>25V
PV High Cut Recovery	22V
Max. Panel Install	500W
Low Battery Cut	10.6V
Battery Boost Voltage LA Mode	14.0V
Battery Boost Voltage Tub Mode	14.5V
Battery Float Voltage	13.7V
Battery High cut	15V
DC load Rating	15 Amp.
Mobile Charging	500 milli ampere
DC load ON/OFF	By Power Switch
MPPT To PV Power Connection Time	15 Sec.
Peak Efficiency	>94%
SCC Type	MPPT

PROTECTIONS

Battery Low	Yes Provided, It Will show on display
High PV voltage	
Reverse PV Protection	
Reverse Current Flow to PV	Yes Provided
Reverse Battery Protection	System will not turn ON
Load short circuit protections	Yes provided it will show on display
Load overload Protection	If the DC load exceeds 15 A, the system will display a warning. After 3 retries, the load will be shut down.

DISPLAY PARAMETERS

Display Type	LCD Display
Display Parameters	Reverse PV, High PV Voltage, High Temperature, DC Load Overload / Short Circuit, Battery Voltage / Current, PV Voltage / Current, Low Battery, DC Load Voltage / Current, Solar Power Available / Not Available.

SAFETY

HV Test Input/ Output to Earth	Leakage current <5 mA when 1.5KV Applied for 1 Min.
IR Test Input/ Output to Earth	<5MΩ between @500V DC

ENVIRONMENT

Operating Temperature	0°C To 40°C
Storage Temperature	0°C To 50°C
Operating Relative Humidity	90% Non-Condensing

WEIGHT AND DIMENSIONS

Dimensions in mm (LxWxH)	310x310x180
Weight (Kg)	3.2

