SOLAR PHOTOVOLTAIC PANEL SYSTEM

Model Number : GOTT-SPPS-COMPLETE-A



FEATURES

- Test the direct output of the panel
- Configure PV panel to achieve necessary voltage /current / power requirement
- Document I-V output at various light intensities and correlate light intensity to power generation (P vs T)
- Test various battery confiigure (option)
- Connect the PV array generation circuitry to storage batteries
- Document battery charge and discharge rates
- Connect the PV array circuitry to an AC inverter
- Drive an AC load with the PV array generation system
- Contains two solar photovoltaic modules mounted on an adjustable carriage which can be tilted for optimum exposure with a nominal voltage output of 17.3V DC at 5.8A
- an inverter that converts the DC to 240VAC single phase at 300W
- a high-capacity solar battery
- controls to monitor power from solar modules and to switch to battery
- a-0-15V DC voltmeter , DC ammeter and a 0-240V AC voltmeter.
- Mobile frame constructed of code gauge furniture stock steel with 4 swivel casters, two with locks and connecting cords.

SPECIFICATION

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DESCRIPTION

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This is a control system trainer which lets the student technician examine the electrical layout and operational features normally associated with a photovoltaic power source.

PORTABLE PHOTOVOLTAIC ENERGY TRAINER

contain a battery and interconnection wiring.

A solar panel (photovoltaic module or photovoltaic panel) is a

packaged interconnected assembly of solar cells, also known as

photovoltaic cells. The solar panel can be used as a component of a larger photovoltaic system to generate and supply

electricity in commercial and residential applications. Because a

single solar panel can only produce a limited amount of power,

many installations contain several panels. A photovoltaic system

typically includes an array of solar panels, an inverter, may

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TECHNICAL SPECIFICATION

- 200 watts solar panel with adjustable tilted
- 20 Amp solar charge controller
- 300 watts inverter

- AC mcb/spd, DC mcb/spd
- Mobile frame finishing w/ power coated *optional data logger

BATTERY SPECIFICATION

Nominal Voltage		12V
Nominal capaci	ty(10 hour rate)	100Ah
Dimensions	Length	330mm
	Width	172mm
	Height	216mm
	Total Height	222mm
Weight Approx		31Kg

20HR 108Ah 100Ah 10HR Capacity 5HR 91Ah (25°C) 1 HR 68Ah Internal Resistance(25°C After Full Charged 3.6mΩ 40°C 102% Capacity affected 25°C 100% by Temperature 83% 0°C (20 hour rate) -15°C 64% After 3 month 91% Capacity after After 6 month 82% different months storage After 9 month 63%

SPECIFICATIONS

CHARATERISTICS

• 80Ah Lead acid battery

ELECTRONICS & ELECTRICITY

SOLAR PHOTOVOLTAIC PANEL SYSTEM

www.gott.com.my

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PRODUCT MODULES							
SOLAR PANEL	CODE 444-101	BATTERY	CODE 444-102	LOAD	CODE 444-104	CIRCUIT BREAKER	CODE 444-10
200Watts with adjustable titled		12VDC, 80AH		000			
LED SIMULATION	CODE 444-106	RECTIFIER	CODE 444-107	AC METER	CODE 444-108	INVERTER UNIT	CODE 444-112
	444-100		++++-107		****108	Input (DC) • Max.DC Power (@ c -1700W • Max.Input Voltage - • MPP voltage range- • Rated Input Voltage Output (AC)	600V (155V-480V
DC METER	CODE 444-109	SOLAR CIRCUIT BREAKER UNIT	CODE 444-110	SOLAR CHARGER CONTROLLER	CODE 444-111	 Rated power (@ 23 1600W Max. AC power - 16 	500VA
				12/24 VDC ; 20A Intelligent PWM ; LED ind	icator	 Nominal AC Voltagi 240V/180V - 260V Max. output current 	
U-LINK	CODE 159-019	SAFETY CONNECTING LEAD	CODE 237-001	VERTICAL FRAME	CODE 297-000	EXPERIMENT MANUAL	CODE 444-113
A unit which is wed to li together		4mm connecting leads		High Level: Din Standard A4 with two sl Material: Alumunium Side Frame: T shape Size: 3-Layer 1450mm Ler	nelves		
 Command the e character of sol Design a practic 	ing principle a experiment m lar cells cal application	nd basic structure of solar ethod to measure the wor with solar cells	rking	 Learn the working 	g mode of the ontrol of char	ole of the controller controller ging and discharging to	the battery

Understand the control of input and output of the battery when the input power and output load changes

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General Terms :

- (1) All manuals are written in English (2) Model Answer

- (1) Accessories will be provided where applicable.
- (3) Teaching Manuals
- (2) Manual & Training will be provided where applicable. (3) Design & specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

ORDERING INFORMATION:

ITEM	MODEL NUMBER	CODE	
SOLAR PHOTOVOLTAIC PANEL SYSTEM	GOTT-SPPS-COMPLETE-A	926-000	
	* Drepaged design poly subject to share an utility in action		

ESTITION YOUR SOLUTION TO EDUCATION TRAINING SYSTEM

Proposed design only, subject to changes without any notice.

Warranty:

2 Years