

It runs with  
the Sun

# PowerCom



## MPPT-Solar Charge Controller

### Product Descriptions

With advanced maximum-power-tracking technology, Deutsche Power MPPT smart and Economy series ensures maximum performance from your solar array at all times and in all weather conditions. It's compatible to 4 different battery types, sealed lead acid, vented, gel and NiCad. Powder coated aluminum/ABS encloser with heavy thermal Fin-typed runway and easy wall mounted facility.

### Main Features

- \* Intelligent Maximum Power Point Tracking technology
- \* increases efficiency 25%~30%
- \* Compatible for PV systems in 12V, 24V or 48V
- \* Five -stage charging optimizes battery performance
- \* Maximum efficiency up to 98%
- \* Maximum charging current 125% on rated capacity
- \* Battery temperature sensor (BTS) automatically provides temperature compensation
- \* Support wide range of lead-acid batteries including wet, AGM, and gel batteries
- \* Multifunction LCD displays detailed information



### Main Applications

- \* Remote Telecom Charger
- \* Battery charger
- \* DC Load
- \* All DC applications



## Power Control & Management

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## Technical Specifications

Model> MPPT DP(xx)(xx)	100DP	120DP
<b>ELECTRICAL PARAMETERS</b>		
<b>PV INPUT</b>	Isolated	Isolated
<b>MPPT Range</b>	60 VDC ~ 115 VDC	60 VDC ~ 115 VDC
<b>Maximum PV Array Open Circuit Voltage</b>	150VDC	150VDC
<b>Maximum PV Array Power</b>	4800W	5600W
<b>Maximum Input Current</b>	100A	120A
<b>BATTERY</b>		
<b>Nominal Battery Voltage</b>	12/24/48VDC	12/24/48VDC
<b>Connected Battery Type</b>	Lead Acid/AGM/ Gel	Lead Acid/AGM/ Gel
<b>Maximum Charge Current</b>	100A	120A
<b>Maximum Efficiency</b>	98%	98%
<b>Charging Method</b>	Five Stages: Trickle, Boost, Heavy bulk, Absorption and Floating	Five Stages: Trickle, Boost, Heavy bulk, Absorption and Floating
<b>Idle Consumption</b>	>1W	>1W
<b>Battery Reorganization</b>	Auto	Auto
<b>Type of Mechanical Protection</b>	IP 31(Indoor Use)	IP 31(Indoor Use)
<b>COMMUNICATION</b>		
<b>Standard</b>	RS-232 and Dry contact USB, Modbus and SNMP	RS-232 and Dry contact USB, Modbus and SNMP
<b>ENVIRONMENT</b>		
<b>Humidity</b>	5 ~ 95% RH (No condensing)	5 ~ 95% RH (No condensing)
<b>Operating Temperature</b>	0°C to 55°C	0°C to 55°C
<b>Storage Temperature</b>	-15°C to 60°C	-15°C to 60°C
<b>Colour</b>	Off White	Off White
<b>Packaging</b>	Export	Export
<b>Grounding</b>	Body	Body
<b>Auxiliary Contact</b>	Optional	Optional
<b>Display</b>	LCD	LCD
<b>Data logging</b>	160days	160days
<b>Charging/Discharging</b>	Separate	Separate
<b>Compliance</b>	TUV/CE/ISO/RoHS	TUV/CE/ISO/RoHS

**IMPORTANT NOTE:** If model Specifies directly DP (XX)(XX ), It means battery voltage is not recognized automatically. Say DP 2430. It describes 24VDC 30AMPS MPPT. You must connect 24 Volt systems.

\* Product specifications are subject to change without further notice



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