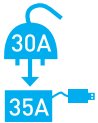


# INTELLI-JAY PM100-BTJ System



**30A Charger  
35A Power Supply**



**Voltage Sensitive  
Relay engages  
and disengages  
with engine  
operation\***



**Water tank monitoring**



**Control/monitor via  
smart phone**

The Intelli-Jay PM100-BTJ works hard behind the scenes so you can focus on the real priorities: your adventure, your time away and your relaxation. Set and forget. Key information is here when you need it: view vehicle and house battery levels, water and waste tank levels, charging and load status from the comfort of your phone or tablet using the Bluetooth powered smart app. When it's time for lights out, turn it all off from your bedside with a simple touch of the "PWR" button in the app. Rest easy knowing the Low Voltage Disconnect won't leave you with a flat battery. Be confident that when you plug in to mains power, your battery is getting most efficient charge possible thanks to Intelli-Jay's advanced 5 stage charging system.

\*100A for 30mins 60A continuous

# SPECIFICATIONS: PM100-BTJ System

MODEL PM100J		
ELECTRICAL SPECIFICATIONS		
Mains	Nominal input voltage (V)	240±10%VAC 50/60Hz
	Power factor	0.95
	Input current at full load	2.5A
Battery	Vehicle battery	12VDC
	Vehicle battery voltage range	12.8-16VDC
	House battery	12VDC
	House battery voltage range	10.5-16VDC
Voltage Sensitive Relay	Relay specification	12Vdc 60A Continuous, Peak current 100A, 30min
	Connect voltage	13.4V (Lead Acid) / 13.7V (Lithium)
	Connection delay time	10 sec
	Disconnect voltage	12.8V (Lead Acid) / 13.3V & ←2A (Lithium)
	Disconnect delay time	60 sec
House battery charger Charge / Power Supply switch set to OFF	High voltage limit	16.0VDC
	Charge Algorithms	5 steps, soft start, bulk, absorption, float, recycle
	Battery type	AGM, GEL, WET, LiFePO4
	Start Voltage	2VDC (lead acid), 0VDC (lithium)
	Bulk current	30A
	Absorption Voltage	14.1 / 14.4 / 14.4 / 14.7VDC (Gel/AGM/LFP/Wet)
Power Supply Mode AC Charging	Float voltage	13.5 / 13.5 / 13.5 / 13.8VDC (Gel/AGM/LFP/Wet)
	Normal output voltage	12.8±0.2 VDC
Efficiency	Rated output current	35A (Continuous)
		88%
Working temperature		-40°C~+65°C (50°C: full load; 60°C:20A; 65°C: shutdown the output)
OTHERS		
Battery Disconnect (LVD)	Disconnect voltage	10.5VDC (lead acid), 11.2VDC (lithium)
	Delay off time	60 sec
	Reconnect voltage	11.5VDC (lead acid), 12.2VDC (lithium)
Current draw on Battery	240VAC is off, no vehicle charging	200mA
	When battery disconnected by LVD	60mA
	When insufficient voltage available	When remote switch is turn off = 0mA
Fused outputs	Rated Current	8 x 10A + 2 x 15A
Protection	Short circuit on output	Fuse protected
	Reverse polarity	
	Overload protection	
	Battery charger over temperature	Automatic Shutdown
	Battery over voltage limits	
PHYSICAL SPECIFICATIONS		
Dimensions (L*W*H)		270 x 197 x 70mm
Weight (kg)		2.6kgs
Enclosure		Steel Case
Battery terminals		M4 Screw (16mm²)
Load terminals		M3 Screw (4mm²), M3.5 Screw (6mm²)
Cooling		Automatic fan

PM100-BTJ System

# GETTING CONNECTED: PM100-BTJ System

## Connecting to a Smart Device (BlueTooth®)

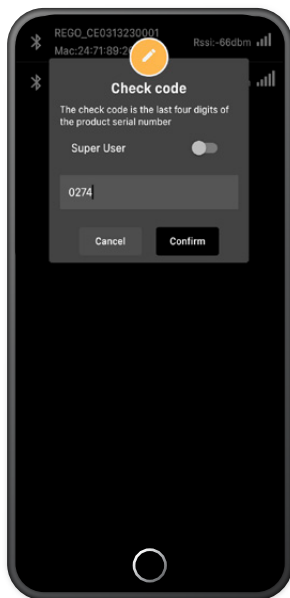
- 1 Go to your smart device's App Store (iPhone/iPad) or Play Store (Android) and search for the Jayco® "Intelli-Jay PM100-BTJ" app. Download this app to your smart device.
- 2 Ensure Bluetooth® is enabled on your smart device and that permission is granted for the app to use Bluetooth and discover new connections.
- 3 Open the app and it will begin searching for your system's PMBTJ-02 Bluetooth® node. When this node shows up in the device list, tap and you will be prompted to enter a pairing code.
- 4 The default pairing code is the last four (4) digits of your PMBTJ-02 node's serial number. You can find this serial number printed on the side of the node.

### If the Bluetooth node does not show up in the device list, ensure the following:

- You are within close enough proximity to the PM100-BTJ system
- The PM100J transformer is connected to sufficient power and operational
- The Bluetooth® node is properly connected to the PM100J transformer
- Your smart device operating system is up to date (iOS 8.0 and higher, or Android 4.4 and higher)



Scan the QR with your phone or tablet to see a "how to" video



## Using the Intelli-Jay PM100-BTJ App

- 1 Once you have established a paired connection with your smart device, the app will take you to its home screen where you may see a variety of system parameters.
- 2 From here you can access the settings menu via the white cog/gear in the top right of the screen. This menu allows you to choose your battery type from AGM, GEL, LFP (lithium) or WET. Note: your Jayco dealer has already selected the most appropriate option for you here.
- 3 It is recommended that you update your PM100-BTJ system to the latest firmware – this can be done by via the update function in the settings menu (your system may already be up to date). Please ensure you remain in close proximity to the system and do not disconnect power to the system or your phone during an update.
- 4 From the home screen, the PM100-BTJ app allows the user to remotely monitor key aspects of the power system from the convenience of their phone or tablet, as well as remotely switch the output load's power on or off.



### The following information is displayed in the app's home screen:

- House battery volts and amps (charge and discharge)
- Vehicle battery voltage
- Charging mode/status
- Power input source (grid or VCR)
- Water tank levels (when sensors connected/installed/operational)
- Load status and power button

Note: The power button may be used to turn output load power on or off, resulting in startup or shutdown of all appliances and lighting wired to outputs on the PM100J transformer. This switch only affects output load - the app will continue monitoring parameters and retain its Bluetooth connection to your smart device, even with the load off.



### **Need help with your Intelli-Jay?**

Give the Projecta Technical Support Line  
a call on national Toll Free 1800 294 294



Brown & Watson International Pty Ltd  
1500 Ferntree Gully Road  
Knoxfield Victoria 3180

Telephone (03) 9730 6000  
Facsimile (03) 9730 605

